

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of	)	
Richard SCHLEGEL et al	)	
Serial No. 08/216,506	)	Group Art Unit: 1813
Filed: March 22, 1994	)	
For: PAPILLOMAVIRUS VACCINE	)	Examiner: A. Caputa

DECLARATION UNDER 37 C.F.R. § 1.132 **RECEIVED**

Honorable Commissioner of  
Patents and Trademarks  
Washington, D.C. 20231

MAR 24 1995

**GROUP 1800**

Sir:

I, John W. Kreider, declare and state that:

(1) I have been a Professor at Pennsylvania State University from 1968 to present. I have a joint appointment in the Department of Microbiology and the College of Medicine.

(2) I received a M.D. from the University of Pennsylvania in 1963.

(3) I am a well-known expert in the area of papillomavirus research. My relevant experience in this area includes the development of methods for transforming human tissues, development of papillomavirus animal models for the evaluation of potential therapeutic agents; the study of human papillomaviruses and cervical cancer; development of treatment methods for papillomavirus infections; and the immunological aspects of papillomavirus infection.

(4) I attend and give numerous lectures in the area of papillomavirus research.

(5) I am an author on numerous publications relating to papillomavirus research.

(6) I am an inventor on two United States patents relating to propagating human papillomaviruses.

(7) I am a member of the International Society for Anti-viral Research.

(8) My curriculum vitae is attached as an Exhibit to this Declaration.

(9) I have reviewed the above-identified patent application by Richard Schlegel, M.D. and A. Bennett Jenson, M.D., entitled "Papillomavirus Vaccine". Based on my review thereof, it is my understanding that this application is directed to papillomavirus vaccines which contain recombinant, conformationally correct papillomavirus L1 major capsid proteins. It is my further understanding that this application is directed to human papillomavirus vaccines which contain recombinant, conformationally correct human papillomavirus L1 proteins.

(10) I have also reviewed the "Declaration Pursuant to 37 C.F.R. § 1.132" by Richard Schlegel, M.D., Ph.D., submitted on June 13, 1994, in connection with the above-identified application.

(11) It is my understanding that the Examiner assigned this application recently issued an Office Action which asserted that the above-identified application and the Schlegel Declaration are insufficient to convince one skilled in the art that recombinant, conformationally correct human papillomavirus (HPV) L1 capsid proteins may be used as an effective vaccine

for affording protection in humans against human papillomavirus infection.

(12) I disagree with the Examiner's conclusions. It is my expert opinion that the above-identified application and the Schlegel Declaration contain sufficient evidence that recombinant, conformationally HPV L1 proteins may be used as vaccines for protecting humans against papillomavirus infection. I base my opinion on at least the following.

(13) Given my established expertise in evaluating papillomavirus animal models it is my expert opinion that the COPV dog model is an adequate animal model for study of human papillomavirus infection and potential therapeutics. In fact, in my expert opinion this animal model is the best known animal model for the study of human papillomavirus infection and potential HPV vaccines. As discussed in the Schlegel Declaration, and as well known in the papillomavirus art, COPV and HPV's which cause cancer possess numerous similarities. For example, these viruses exhibit similar genetic organization, viral structure, L1 capsid protein sequences, and selectively infect a mucosal site of infection. Therefore, based on these significant similarities, it is my expert opinion that the COPV animal model is a valid animal model for predicting the efficacy of HPV vaccines.

(14) It is further my expert opinion that the Schlegel Declaration contains data which convincingly establishes that the administration of recombinant, conformationally correct papillomavirus proteins confer protection in humans against the homologous PV (wherein homologous PV refers to a papillomavirus

which expresses the same recombinant L1 protein which is administered). I base my opinion in part in the fact that the Declaration indicates that all of the 25 dogs which were inoculated with recombinant COPV L1 protein were protected, i.e., these dogs did not develop perceptible COPV infection upon challenge. By contrast, all of the control dogs which did not receive the L1 protein developed COPV infection.

(15) The Schlegel Declaration further demonstrates that serum obtained from dogs vaccinated with recombinant, conformationally correct COPV L1 protein, upon passive transfer to naive dogs confers protection. This is highly significant because this provides evidence that a protective humoral immune response to the L1 protein is obtained after administering the recombinant, conformationally correct L1 proteins.

(16) The Schlegel Declaration further contains persuasive evidence that recombinant, conformationally correct PV L1 proteins confer protection, whereas denatured papillomavirus proteins do not confer protection. Thus, the Schlegel Declaration contains evidence that proper L1 protein conformation is necessary for an adequate, i.e., protective immune response.

(17) I can further attest to the fact that the data contained in the Schlegel Declaration has been presented at several scientific meetings. Also, I have reviewed the abstracts and a manuscript derived from those presentations. The data of Dr. Jenson and Dr. Schlegel has been extremely well received and is widely regarded to provide the first convincing *in vivo* demonstration that it should be possible to administer

conformationally correct HPV proteins to human subjects in order to provide immunity against HPV infection.

(18) I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date: \_\_\_\_\_

3/1/95

  
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John W. Kreider

### Recent Extramural Lectureships (cont'd)

5/20/90	Pathology Review Course, Osler Institute, Washington, DC	Faculty Lecturer: "Neoplasia"
11/20/90	Wellcome Research Labs Burroughs Wellcome Company Research Triangle Park North Carolina	Invited Speaker: "Model Systems of Human Papilloma- virus Biology, Immunology, and Therapy"
1/15/91	Roswell Park Memorial Institute, Buffalo, New York	Invited Speaker: "Human Papillomaviruses and Cervical Cancer"
4/1/91	Collaborative Antiviral Testing Group (CATG) of the Microbiol- ogy and Infectious Diseases Program of NIAID/NIH, Bethesda, MD	"Antiviral Therapy for Shope Rabbit Papilloma"
4/25/91	Continuing Education Program CPOG Career Day for High School Students The Milton S. Hershey Medical Center, Hershey, PA	Invited Speaker: "Basic Science and Pathology of Cancer"
6/15/91	Sterling Drug Company, Albany, NY	"Animal Models for Antiviral Therapy"
7/8/91	Hershey Rotary Club Hershey Country Club	"Jake Gittlen Cancer Research Institute"
7/20/91	International Papillomavirus Workshop, Seattle, WA	Chaired Session: "Mucosal Papillomaviruses"
7/30/91	Rocky Mountain Laboratory U.S.P.H.S., Hamilton, MT	"Animal Papillomaviruses"
10/7/91	Head and Neck Cancer Model Conference, Upper Aerodigestive Organ System Working Group, NCI and University of Texas MD Anderson Cancer Center, Hershey, PA	"Animal Models of Human Papillomavirus Infections"
11/12/91	Cancer Update for Teachers, Continuing Education Program, The Milton S. Hershey Medical Center, Hershey, PA	"What is Cancer?"

### Recent Extramural Lectureships (cont'd)

11/13/91	Department of Biology, Colloquium Series, Millersville University, Millersville, PA	"Love, Warts and Cancer"
12/12/91	42nd Annual Meeting, American College of Veterinary Pathologists Orlando, Florida	Invited Speaker: "Papilloma Viruses in Animals and Man"
2/24/92	Department of Microbiology and Immunology, Albert Einstein College of Medicine of Yeshiva University, Bronx, New York	Invited Seminar Speaker: "Developments in Treatment and Prevention of Human Papilloma- virus Infections"
3/15/92	Binford-Dammin Society of Infectious Disease Pathologists Atlanta, Georgia	Invited Speaker: "The Development of Animal Models for Studying Human Papilloma- Induced Squamous Cell Carcinoma"
3/19/92	Wyeth-Ayerst Research Philadelphia, PA	Invited Seminar Speaker: "Model Systems for Human Papillomavirus"
4/15/92	Collaborative Antiviral Testing Group (CATG) of the Microbiol- ogy and Infectious Diseases Program of NIAID/NIH, Bethesda, MD	"Animal Models for Evaluation of Antivirals for Papillomavirus Infections"
9/10/92	International Papillomavirus Workshop, Edinburgh, Scotland	"Evaluation of the Shope Rabbit Papilloma as a Model System in the Study of Intralesional MPI 5003 for Treatment of Conodylomata Acuminata"
6/01/94	Division of Antiviral Drug Products Food and Drug Administration Bethesda, MD	Invited Seminar Speaker: "The First Workshop On Antiviral Claims for Topical Antiseptics"

### Abstracts and National Meetings

1. Kreider, J.W. Studies on the Mechanisms Responsible for the Spontaneous Regression of the Shope Rabbit Papilloma. Proc. Am. Assoc. Cancer Res. 4:#138, 1963.
2. Kreider, J.W. and Breedis, C. Interactions of the Shope Papilloma Virus and Rabbit Skin Cells as Demonstrated by Immunofluorescence. Proc. Am. Assoc. Cancer Res. 7:#150, 1966.
3. Kreider, J.W. and Breedis, C. Proliferative Response of Rabbit Skin Cell Cultures to Infection with Shope Papilloma Virus. Proc. Am. Assoc. Cancer Res. 8:#149, 1967.
4. Breedis, C. and Kreider, J.W. The Role of the Dermis in the Neoplastic Transformation of Epidermis by Shope Papilloma Virus (SPV). Proc. Am. Assoc. Cancer Res. 9:#29, 1968.
5. Kreider, J.W. and Breedis, C. Spontaneous Regression of Shope Papilloma Virus-Induced Papillomas of Fetal Rat Skin Transplanted to the Adult Rat. Fed. Proc. 28:#2839, 1969.
6. Kreider, J.W. and Breedis, C. Histogenetic Interactions of Enzyme-Dissociated Epidermal and Dermal Cells in Monolayer Cultures. J. Invest. Dermatol. 52:#366, 1969.
7. Kreider, J.W., DelVillano, B. and Shoff, W. Suppression of SV<sub>40</sub> "T" Antigen in Transformed Hamster Cells by Chronic Treatment with 5-Bromo-2-Deoxyuridine (BUdR). Proc. Am. Assoc. Cancer Res. 11:#179, 1970.
8. Kreider, J.W. Prevention of Polyinosinic-Polycytidylic Acid Inhibition of Tumor Growth by Immunosuppression. Fed. Proc. 29:#2104, 1970.
9. Kreider, J.W., Benjamin, S.A., Pruchnic, W.F. and Strimlan, C.V. Immunologic Inhibition of the Growth of Virus-Induced Rat Epidermal Papillomas. J. Invest. Dermatol. 54:#429, 1970.
10. Kreider, J.W., Benjamin, S.A., Pruchnic, W.F. and Strimlan, C.V. Shope Papilloma Virus Induced Papillomas in Immunosuppressed Rats. International Academy of Pathology, 1970.
11. Kreider, J.W. Stimulation of DNA Synthesis of Rat Salivary Gland Cells in Monolayer Cultures by Isoproterenol (IPR). In Vitro 6:#239, 1970.
12. Jones, R.E., Kreider, J.W. and Criley, B.B. Incubation Patch of the Chicken: Response to Hormones In Situ and Transplanted to a Dorsal Site. Pacific Conference in Comparative Endocrinology, University of California, Santa Barbara, California, May 9, 1970.
13. Kreider, J.W. and Cecalupo, A. Response of Rat GVHR to Poly I-Poly C. Proc. Am. Assoc. Cancer Res. 12:#228, 1971.
14. Kreider, J.W., Haft, H.M. and Roode, P.B. Growth of Human Skin on the Hamster. J. Invest. Dermatol. 56:247-248, 1971.
15. Neely, J.E., Combs, J.W. and Kreider, J.W. A Novel Technique for Uniform Autoradiography of a Dispersed Cell Population. Fed. Proc. 30:#1145, 1971.



### Abstracts and National Meetings (cont'd)

16. Kreider, J.W. Immunostimulation and Tumor Inhibition with Poly I-Poly C. Annual Meeting, Allegheny Branch, American Society of Microbiology, Hershey, PA, November, 1971.
17. Kreider, J.W. and Cecalupo, A.J. Poly I-Poly C (PIC) Effects on Newborn Rats. Bact. Proc. #M65, 1972.
18. Kreider, J.W., Matheson, D.W., Rosenthal, M., Beltz, B.A. and Neely, J.E. Inhibition of Melanogenesis with BUdR Treatment in a Single Cycle of DNA Synthesis. Fed. Proc. 31:#2219, 1972.
19. Kreider, J.W. and Benjamin, S.A. Tumor-Specific Immunity and Poly I- Poly C. Proc. Am. Assoc. Cancer Res. 13:#203, 1972.
20. Kreider, J.W., Wade, D.R., Rosenthal, M. and Densley, T. Modification Via the Cyclic AMP Mechanism of the Proliferation and Differentiation of B16 Melanoma Cells. Miami Winter Symposia Series: Cyclic Nucleotides in Carcinogenesis, 1973.
21. Rosenthal, M.H., Shiman, R. and Kreider, J.W. A Quantitative Fluorimetric Assay for Melanin. Fed. Proc. 32:#3647, 1973.
22. Kreider, J.W. and Combs, J.W. Immunologic Inhibition of Cellular Proliferation in Tumor Allografts. Proc. Am. Assoc. Cancer Res. 14:#198, 1973.
23. Satoh, C., Kreider, J.W. and Davidson, E.A. Complex Saacharides of Cultures Melanoma Cells Fed. Proc. 32:#2604, 1973.
24. Kreider, J.W. and Beltz, B. Spontaneous Regression of the Shope Papilloma: Relationship of Leucocytic Infiltration and Tumor Cell Proliferation. Proc. Am. Assoc. Cancer Res. 15:#509, 1974.
25. Bartlett, G.L., Kreider, J.W. and Flickinger, J.T. Cancer Immunotherapy: Animal Models for Treatment of Minimal Residual Systemic Tumor. Natl. Cancer Inst. Immunotherapy Contractee - Grantee Conference, 1974.
26. Flickinger, J.T., Zajac, W. and Kreider, J.W. Replication and Immunosensitivity of Mature B16 Melanoma Cells. Proc. Canad. Fed. Biology Soc. 17:#135, 1974.
27. Rosenthal, M.H., Shiman, R. and Kreider, J.W. A Quantitative Fluorimetric Assay for Melanin. Yale J. Biol. and Med. 46:#714, 1973.
28. Davidson, E.A., Tkacz, J., Bhavanandan, V.P., Banks, J. and Kreider, J.W. Complex Saacharide Production by Cultured Mammalian Cells. 3rd International Symposium on Glyconconjugates, Brighton, England, 1975.
29. Bartlett, G.L., Kreider, J.W. and Purnell, D.M. Development of a Vaccine for Immunotherapy of Murine Leukemia. Fed. Proc. 35:#102, 1976.
30. Kreider, J.W. and Bartlett, G.L. Differential Suppression of Tumor Cell-Immune Stimulant Mixtures in Various Sites. Proc. Am. Assoc. Cancer Res. 17:#445, 1976.

# Abstracts and National Meetings (cont'd)

31. Silverstein, E., Kreider, J.W., Kukulinsky, N. and Roe, L. Characterization of the Leucocytes Infiltrating Regressing and Progressing Autochthonous Moloney Sarcomas of Mice. Proc. Am. Assoc. Micro. #E57, 1976.
32. Bartlett, G.L. and Kreider, J.W. Diminished Immunogenicity of Tumor Cells After Storage in Liquid Nitrogen. Proc. Am. Assoc. Cancer Res. 17:#443, 1977.
33. DeFreitas, E., Kreider, J.W. and Bartlett, G.L. Immunologic Rejection of Murine Moloney Sarcoma is Unaffected by an Inhibitor of Macrophage Cytotoxicity. Fed. Proc. 36:#5046, 1977.
34. Kreider, J.W. and Bartlett, G.L. Trypan Blue Prevents Immunologically-Mediated Tumor Rejection. Fed. Proc. 36:#5045, 1977.
35. Purnell, D.M., Bartlett, G.L., Kreider, J.W. and Biro, T.G. Synergistic Effects of Corynebacterium Parvum (CP) of Bordetella Pertussis (BP) Combined with Cyclophosphamide (CY) in the Treatment of Murine Mammary Adenocarcinoma (CAD<sub>2</sub>). Fed. Proc. 36:#5152, 1977.
36. DeFreitas, E., Kreider, J.W. and Bartlett, G.L. In Vivo Functional Analysis of the Leukocytes Infiltrating Regressing Moloney Virus Induced Sarcomas. Proc. Am. Assoc. Cancer Res. 19:#782, 1978.
37. Kreider, J.W., Bartlett, G.L. and Purnell, D.M. Response of 13762A Rat Mammary Carcinoma to Intratumor C. Parvum. Proc. Am. Assoc. Cancer Res. 19:#781, 1978.
38. Purnell, D.M., Bartlett, G.L., Kreider, J.W. and Kontra, J. Systemic (i.v. or i.p.) Not Intratumor (i.t.) Treatment with Corynebacterium Parvum (c.p.) Inhibits Mammary Adenocarcinoma (CaD2) Growth in Thymectomized (Tx) - Antithymocyte Serum (ATS) Treated Mice. Proc. Am. Assoc. Cancer Res. 19:#872, 1978.
39. DeFreitas, E., Kreider, J.W. and Bartlett, G.L. Leukocyte Functional Activities in Trypan Blue Treated Mice. Fed. Proc. 37:#69, 1978.
40. Boyer, C., Kreider, J.W., Bartlett, G.L. and Purnell, D.M. Immunotherapy of Postsurgical Metastases with Killed BCG. Fed. Proc. 38:#4561, 1979.
41. Kreider, J.W., Bartlett, G.L. and Purnell, D.M. Comparative Effectiveness of BCG Substrains and Preparations in Immunotherapy of Postsurgical Metastases. Fed. Proc. 38:#4560, 1979.
42. Kreider, J.W., Bartlett, G.L. and Purnell, D.M. Comparative Effectiveness of Burroughs Wellcome and Merleux Institute Corynebacterium parvum for Immunotherapy of Four Animal Tumor Models. Proc. Am. Assoc. Cancer Res. 20:#489, 1979.
43. Bartlett, G.L. and Kreider, J.W. Active, Tumor-Specific Immunotherapy of LSTRA Murine Leukemia Using Irradiated Tumor Cells and Corynebacterium parvum. Proc. Am. Assoc. Cancer Res. 20:#764, 1979.
44. Titus, M.J., Bartlett, G.L. and Kreider, J.W. Local Effects in the Prevention of Tumor Cell Immunization by Supra-optimal Doses of Admixed Corynebacterium parvum. Proc. Am. Assoc. Cancer Res. 21:#872, 1980.

# Abstracts and National Meetings (cont'd)

45. Boyer, C.M., Kreider, J.W. and Bartlett, G.L. T Cell Role in C. parvum Immunotherapy of Metastases of 13762A Rat Mammary Adenocarcinoma. Proc. Am. Assoc. Cancer Res. 21:#879, 1980.
46. Isom, H.C., Tevethia, M.J., Taylor, J.M. and Kreider, J.W. Tumorigenicity of Simian Virus 40 (SV40)-transformed Rat Hepatocytes. Tenth Cold Spring Harbor Conference on SV40, Polyoma, and Adenoviruses, Cold Spring Harbor, NY, August 13-17, 1980, p.49.
47. Kreider, J.W. Neoplastic Progression in Shope Rabbit Papilloma. Cold Spring Harbor Conferences on Cell Proliferation "Viruses in Naturally Occurring Cancers", Cold Spring Harbor, N.Y.
48. Kreider, J.W. and Bartlett, G.L. Host Leucocytic Infiltration Accompanying Destruction of Disseminated Leukemia by Active Specific Immunotherapy. Fed. Proc. 40:#4876, 1981.
49. Kreider, J.W. and Bartlett, G.L. In Situ Analysis of Vaccine-Induced Host Leucocytic Intratumoral Infiltration, Tumor Cell Cytostasis and Cytolysis. Proc. Am. Assoc. Cancer Res. 22:#1141, 1981.
50. Bartlett, G.L. and Kreider, J.W. Effect of Tolerance to Corynebacterium Parvum (Cp) on Adjuvant Effects of Cp in Active Specific Immunotherapy. Proc. Am. Assoc. Cancer Res. 22:#1129, 1981.
51. Kreider, J.W., Boyer, C.M. and Bartlett, G.L. Regulation of Adoptive Immunity by Cyclophosphamide-Sensitive Host Cells. Fed. Proc. 41:#801, 1982.
52. Titus, M.J., Bartlett, G.L. and Kreider, J.W. Analysis of C. Parvum's Inhibitory Effect on Immunization by Admixed Irradiated Tumor Cells. Fed. Proc. 41:#808, 1982.
53. Eizuru, Y., Hyman, R., Kreider, J.W. and Rapp, F. Map Positions on Herpes Simplex Virus (HSV) in An HSV-1-Transformed Hamster Cell Line. Cold Spring Harbor Conference on Herpesvirus, 1982.
54. Howell, L.E., Kreider, J.W. and Bartlett, G.L. T Cell Requirement for C. Parvum Destruction of Metastases. Fed. Proc. 42:#5280, 1983.
55. Kreider, J.W., Howell, L.E. and Bartlett, G.L. T Cells Required for the Expression of Tumor Rejection Immunity (TRI) and Delayed Hypersensitivity (DH) to 13762A Rat Mammary Carcinoma. Proc. Am. Assoc. Cancer Res. 25:#1116, 1984.
56. Bartlett, G.L. and Kreider, J.W. Immunogenicity and Metastases of 13762A Rat Mammary Adenocarcinoma. Proc. Am. Assoc. Cancer Res. 25:#1117, 1984.
57. Woodworth, C.D., Kreider, J.W. and Isom, H.C. Characterization of Normal Simian Virus 40 (SVO)-Infected and SV40-transformed Hepatocytes after Transplantation to Spleens of Syngeneic Rats. Proc. Am. Assoc. Cancer Res. 25:#1548, 1984.
58. Osbakken, M., Kreider, J.W. and Taczanowsky. NMR Characteristics of Rat Mammary Tumors. J. Nuclear Med. 25:#165, 1984.

### Abstracts and National Meetings (cont'd)

59. Kreider, J.W. and Bartlett, G.L. Enhanced Immunogenicity and Immunosensitivity of 13762A Rat Mammary Adenocarcinoma. Conference on Immunity to Cancer, Williamsburg, VA, 1984.
60. Christensen, N.D., Kreider, J.W. and Bartlett, G.L. Distinct Proliferative Responses of Sensitized Lymphocytes to 13762A Tumor and Its Strongly Immunogenic Clone 18A. Fed. Proc. 44:#3220, 1985.
61. Kreider, J.W., Bartlett, G.L. and Christensen, N.D. Systemic Adoptive Transfer of T Cells Cures Massive Metastases of 13762A Rat Mammary Tumor. Fed. Proc. 44:#3238, 1985.
62. Kreider, J.W., Bartlett, G.L. and Christensen, N.D. Eradication of Established Metastases by Systemic Adoptive Transfer of Immunity Produced by Highly Immunogenic Tumor Cell Variant. Proceedings of NCI Conference, "Biochemistry and Molecular Genetics of Metastases", 1985.
63. Kreider, J.W., Bartlett, G.L. and Christensen, N.D. Immunogenic Clone Induces Helper and Cytotoxic Cells Which Can Destroy Established 13762A Tumor and Metastases. Proceedings of Trudeau Institute Conference, "Mechanisms of Host Resistance to Infectious Agents, Tumors and Allografts", 1985.
64. Geder, L. and Kreider, J.W. Effect of Differentiation Inducers on Growth Characteristics of Human Glioblastoma Cell Lines. Proc. Am. Assoc. Neurol. Apr. 5-11, 1987.
65. Kreider, J.W., Howett, M.K., Lill, N.L., Zalno, R.J. and Bartlett, G.L. Induction In Vivo of Condylomatous Transformation of Human Skin with Human Papillomavirus (HPV)-11. Fed. Proc. (#4619), 1986.
66. Christensen, N.D., Kreider, J.W. and Bartlett, G.L. Suppression of Antigen-Specific Proliferation by Tumor Antigens of 13762A Rat Mammary Adenocarcinoma. Fed. Proc. (#3278), 1986.
67. Harvey, H.A., Romano, P., Lipton, A., Abt, A., Hess, R. and Kreider, J.W. Engraftment of Human Melanoma Facilitated by Lack of Tumor HLA Expression Reversed by Interferon In Vivo. Proc. Am. Assoc. Cancer Res. 27:#1301, 1986.
68. Hendler, F., Shum-Siu, A., Ozanne, B., Howett, M. and Kreider, J. EGF Receptor is Increased in Transformed Squamous Epithelium. Clin. Res. 34:#698, 1986.
69. Kreider, J.W. and Howett, M.K. HPV-11 Infection of Xenografted Human Tissues. NCI Workshop on Papillomaviruses, February 17-19, 1986.
70. Kreider, J.W. Test of the Hypothesis that Human Papillomaviruses Contribute to the Development of Human Cervical Carcinoma. American Cancer Society Science Writers' Conference, Daytona Beach, Florida, March 25, 1986.
71. Kreider, J.W. and Howett, M.K. Morphological Transformation In Vivo of Human Uterine Cervix, Skin and Larynx with Papillomavirus from Condylomata Acuminata. Proceedings of IX International Congress of Infectious and Parasitic Diseases, Munich, West Germany, July 20-26, 1986.

# Abstracts and National Meetings (cont'd)

72. Kreider, J.W., Howett, M.K., Lill, N.L., Leure-Dupree, A.E. and Zaino, R.J. Tissue Specific Expression of HPV-11. Proceedings of International Workshop on Papillomaviruses, Cold Spring Harbor, NY, September 3-7, 1986.
73. Christensen, N.D. and Kreider, J.W. A Suppressor Lymphokine Produced from Rat T-Cells Specifically in Response to the Syngeneic Mammary Adenocarcinoma 13762A. Fed. Proc., March, 1987.
74. Metz, K.R., Christensen, N., Williams, G.D., Kreider, J.W. and Gaydos, A.J. Comparative <sup>13</sup>C NMR Studies of Gliomas with High and Low Tumorigenic Potential. Eighth International Meeting on NMR, 1987.
75. Kreider, J.W. and Howett, M.K. Xenografts of Human Tissues as a Model System for the Study of Co-Factors in Uterine Cervical Carcinogenesis. Proceedings of the Aris International Sero Symposium, Herpes and Papilloma Viruses - Their Role in Carcinogenesis of the Human Genital Tract - II, Milan, Italy, March, 1987.
76. Kreider, J.W. and Howett, M.K. Condylomatous Transformation by HPV-11 of Cultured Human Foreskin Keratinocytes Transplanted to Athymic Mice. Sixth International Papillomavirus Meeting, Georgetown, MD, June, 1987.
77. Howett, M.K., Lill, N.L. and Kreider, J.W. Molecular Cloning and Characterization of HPV-11 DNA from Experimental Condylomata. Sixth International Papillomavirus Meeting, Georgetown, MD, June, 1987.
78. Howett, M.K., Weber, J.A. and Kreider, J.W. Proteolytic Release of HPV-11 Virions from Experimentally Produced Condylomata. Sixth International Papillomavirus Meeting, Georgetown, MD, June, 1987.
79. Stoler, M., Wolinsky, S., Broker, T., Chow, L., Howett, M. and Kreider, J.W. The Temporal Genetic Expression of Human Papillomavirus Type 11 in Condyloma Induced Athymic Mice. Sixth International Papillomavirus Meeting, Georgetown, MD, June, 1987.
80. Thompson, C.I., Margules, D.L. and Kreider, J.W. OB/OB Mice Form Stronger Conditioned Taste Aversions than Lean Mice. Eastern Psychological Association Meeting, Buffalo, NY, April, 1988.
81. Kreider, J.W., Howett, M.K. and Zaino, R.J. Beta-Estradiol Stimulation of the Growth of Experimental Human Condylomas Induced with Human Papillomavirus Type 11. Seventh International Papillomavirus Meeting, Sophia Antipolis, France, May, 1988.
82. Kreider, J.W., Zaino, R., Walsh, P.A. and Patrick, S.D. Host Factors Regulating Condylomatous Transformation by HPV-11. UCLA Symposium, International Papillomavirus Workshop, March, 1989.
83. Christensen, N.D., Kreider, J.W., Cladel, N.M. and Galloway, D.A. Immunological Cross Reactivity to Experimentally-Produced HPV-11 of Polysera Raised Against Bacterially-Expressed Fusion Proteins of HPV-6 and HPV-16 L1 and L2 ORFs. UCLA Symposium, International Papillomavirus Workshop, March, 1989.

Abstracts and National Meetings (cont'd)

84. Cockley, K.D., Dolan, E., Hendrickson, W., Kreider, J.W. and Howett, M.K. Analysis of Human Papillomavirus Type 11 (HPV-11)-Specific mRNA Synthesis in HPV-Infected Human Uterine Cervix *In Vivo*. UCLA Symposium, International Papillomavirus Workshop, March, 1989.
85. Bromley, S.E., Darfler, M.M., Hammer, M.L., Jones-Trower, A., Primus, M.A. and Kreider, J.W. *In Situ* Hybridization to Human Papillomavirus DNA in Fixed Tissue Samples: Comparison of Detection Methods. UCLA Symposium, International Papillomavirus Workshop, March 1989.
86. Olson, R.O., Kreider, J.W. and Balogh, K.M. Suppression of the Growth of Shope Rabbit Papillomas with PMEG. UCLA Symposium, International Papillomavirus Workshop, March 1989.
87. Howett, M.K., Kreider, J.W. and Cockley, K.D. Human Xenografts: A Model System for Human Papillomavirus Infection. The Changing Complexion of DNA Viruses Symposium, The Milton S. Hershey Medical Center, May 1989.
88. Kreider, J.W. A Papillomavirus Animal Model for Evaluation of Experimental Therapies. Annual Meeting, Collaborative Antiviral Testing Group (CATG), Microbiology and Infectious Diseases Program, NIAID, NIH, Bethesda, Maryland, May 1989.
89. Metz, K.R., Geder, L., Mikus, J.L., Gaydos, A.J., and Kreider, J.W. Nuclear Magnetic Resonance Investigations of Tumorigenicity in Human Glioma Cell Lines. *Cancer Chemother. Pharmacol.* 24:S69, 1989.
90. Kreider, J.W. Treatment of Papillomavirus Infections with Acyclic Nucleotides. UCLA Symposia on Molecular & Cellular Biology, Animal Models of Human Viral Diseases, March 1990.
91. Christensen, N.D. and Kreider, J.W. Antibody-Mediated Neutralization *In Vivo* of Infectious Papillomaviruses. Papillomavirus Workshop 1990, Heidelberg, Germany.
92. Christensen, N.D., Kreider, J.W., Cladel, N.M., Patrick, S.D. and Welsh, P.A. Monoclonal Antibodies with Reactivity to External Antigenic Epitopes of HPV-11 Virions. Papillomavirus Workshop 1990, Heidelberg, Germany.
93. Kreider, J.W., Patrick, S.D., Cladel, N.M. and Welsh, P.A. Experimental Infection with Human Papillomavirus Type 1 of Human Hand and Foot Skin. Papillomavirus Workshop 1990, Heidelberg, Germany.
94. Kreider, J.W. and Balogh, K. Cure of Established Shope Papillomas with Topical Treatments of PMEG. Papillomavirus Workshop 1990, Heidelberg, Germany.
95. Kreider, J.W., Balogh, K., Olson, R.O. and Martin, J.C. Treatment of Latent Rabbit and Human Papillomavirus Infections with 9-(2-phosphonylmethoxy)ethylguanine (PMEG). Abstract #1934, Annual Meeting of the American Association for Cancer Research, May, 1990.
96. Kreider, J.W., Patrick, S.D., Cladel, N.M., and Welsh, P.A. Experimental Infection with Human Papillomavirus Type 1 of Human Hand and Foot Skin. International Papillomavirus Workshop, Heidelberg, West Germany, 1990.

# Abstracts and National Meetings (cont'd)

97. Kreider, J.W. and Balogh, K. Cure of Established Shope Papillomavirus Infections treated with Topical Acyclic Nucleotides. International Papillomavirus Workshop, Heidelberg, West Germany, 1990.
98. Christensen, N.D. and Kreider, J.W. Specific Antibody-Mediated Neutralization *in Vivo* of Infectious Papillomaviruses. International Papillomavirus Workshop, Heidelberg, West Germany, 1990.
99. Christensen, N.D., Kreider, J.W., Cladel, N.M., Patrick, S.D., and Welsh, P.A. Monoclonal Antibodies with Reactivity to External Antigenic Epitopes of HPV-11 Virions. International Papillomavirus Workshop, Heidelberg, West Germany, 1990.
100. Cockley, K.D., Choudhury, S., Kreider, J.W., Wang, G.-Y., and Howett, M.K. Transformation of Human Keratinocytes and Rat-2 Cells Using the Strontium Phosphate Transfection Technique. International Papillomavirus Workshop, Heidelberg, West Germany, 1990.
101. Ward, M.G., Cockley, K.D., Kreider, J.W., and Howett, M.K. Differential Expression of Cellular Genes in Experimental Condylomata Versus Normal Tissue. International Papillomavirus Workshop, Heidelberg, West Germany, 1990.
102. Kreider, J.W. Treatment of Shope Papillomas. Annual Meeting, Collaborative Antiviral Testing Group (CATG), Microbiology and Infectious Diseases Program, NIAID, NIH, Bethesda, Maryland, June 1990.
103. Kreider, J.W., Patrick, S.D., Welsh, P.A., DiAngelo, S.L., Kerschner, J.M., and Cladel, N.M. High Efficiency Induction *In Vivo* of Shope Papillomas with Recombinant DNA Plasmids. International Papillomavirus Workshop, Seattle, Washington, USA, 1991.
104. Kreider, J.W., Christensen, N.D., Christian, C.B., and Pickel, M.D. Topical Podophyllotoxin Treatment of Shope Rabbit Papillomas. International Papillomavirus Workshop, Seattle, Washington, USA, 1991.
105. Okabayashi, M., Angell, M.G., Budgeon, L.R., and Kreider, J.W. Papilloma Cell and Leukocyte Proliferation in Regressing and Progressing Rabbit Papillomas. International Papillomavirus Workshop, Seattle, Washington, USA, 1991.
106. Okabayashi, M., Angell, M.G., Christensen, N.D., and Kreider, J.W. Morphometric Analysis and Identification of Infiltrating Leucocytes in Regressing and Progressing Shope Rabbit Papillomas. International Papillomavirus Workshop, Seattle, Washington, USA, 1991.
107. Christensen, N.D., Kreider, J.W., Shah, K.V., and Rando, R.F. Detection of Human Serum Antibodies that Neutralize Infectious HPV-11 Virion. International Papillomavirus Workshop, Seattle, Washington, USA, 1991.
108. Christensen, N.D., and Kreider, J.W. Neutralization of CRPV Infectivity by Monoclonal Antibodies that Identify Conformational Epitopes on Intact Virions. International Papillomavirus Workshop, Seattle, Washington, USA, 1991.

**Abstracts and National Meetings (cont'd)**

109. Peng, X., Kreider, J.W., Olson, R.O., Christian, C.B., and Lang, C.M. Transgenic Rabbits: CRPV DNA Induced Papillomas. International Papillomavirus Workshop, Seattle, Washington, USA, 1991.
110. Metz, K.R., Geder, L., Gaydos, A.J., Bowers, J.L., Mikus, J.L., and Kreider, J.W. <sup>13</sup>C NMR Prediction of Aggressiveness in Human Glioma Cell Lines. 17th L.H. Gray Conference, University of Kent at Canterbury, U.K., 1992.
111. Kreider, J.W., Pickel, M.D., Orenberg, E.K., Yu, N., Brown, D.M. and Luck, E. Concordance of Condylomata Acuminata Responses to Treatment with Intralesional MPI 5003 and Papilloma Responses in the Shope Rabbit Papilloma Model System. Annual Meeting, Skin Pharmacology Society, Cleveland, Ohio, 1992.
112. Kreider, J.W., Pickel, M.D., Orenberg, E.K., Yu, N., Luck, E.E., and Brown, D.M. Evaluation of the Shope Rabbit Papilloma as a Model System in the Study of Intralesional MPI 5003 for Treatment of Condylomata Acuminata. 11th International Papillomavirus Workshop, Edinburgh, Scotland, 1992.
113. Christian, C.B. and Kreider, J.W. Characterization of Biotinylated BPV-1 Binding to C127 Cells. 11th International Papillomavirus Workshop, Edinburgh, Scotland, 1992.
114. Chung, D., Olson, R.O., Christian, C.B., Budgeon, L.R., and Kreider, J.W. Overexpression of Epidermal Growth Factor Receptor Gene, Transcripts, and Protein in Humna Foreskin Xenografts Infected with HPV-11. 11th International Papillomavirus Workshop, Edinburgh, Scotland, 1992.
115. Kreider, J.W., Cladel, N., Leure-duPree, A., Welsh, P., Patrick, S., DiAngelo, S., and Bower, J. Production and Characterization of Cottontail Rabbit Papillomavirus (CRPV) Virions Induced with Recombinant DNA Plasmids. 11th International Papillomavirus Workshop, Edinburgh, Scotland, 1992.
116. Okabayashi, M., Angell, M.G., Christian, C.B., Olson, R.O., and Kreider, J.W. Increased Class I and II MHC Antigen Expression in Regressing and Progressing Shope Papillomas. 11th International Papillomavirus Workshop, Edinburgh, Scotland, 1992.
117. Angell, M.G., Christensen, N.D., and Kreider, J.W. An *In Vitro* System for Studying the Initial Stages of Cottontail Rabbit Papillomavirus (CRPV) Infection. 11th International Papillomavirus Workshop, Edinburgh, Scotland, 1992.
118. Höpfel, R.M., Christensen, N.D., Angell, M.G., and Kreider, J.W. Lymphoproliferative Response Against Late Cottontail Rabbit Papillomavirus (CRPV) Antigens in Rabbits with Persisting Papillomas or After Regression. 11th International Papillomavirus Workshop, Edinburgh, Scotland, 1992.
119. Helm, K., Höpfel, R., Christensen, N., Wartusch, B., Weiss, D., Pinzger, G., Zeimet, A., Baumgartner, P., Kreider, J.W., and Dapunt, O. Serum IgA, IgG and IgM Reactivity to Intact HPV-11 Virions in Patients with Current Genital Papilloma Virus Infections. International Workshop on Immunology of Human Papillomavirus Infections, Amsterdam, The Netherlands, 1992.



### Abstracts and National Meetings (cont'd)

120. Wisotzkey, J.D., Krizenoskas, A., DiAngelo, S., and Kreider, J.W. Cleavage of Cottontail Rabbit Papillomavirus E7 RNA Sequences with an *Ant-E7* Hammerhead Ribozyme. New Frontiers in Biomedical Research, Biomedical Research Building Dedication, The Pennsylvania State University College of Medicine, April 1993.
121. Peng X., Lang C. M., and Kreider J.W. CRPV Genes: Tissue-specific expression and malignant transformation in transgenic rabbits. New Frontiers in Biomedical Research, Biomedical Research Building Dedication, The Pennsylvania State University College of Medicine, April 1993.
122. Angell, M.A. and Kreider, J.W. Susceptibility of CRPV Infection to Interferon Activity *In Vitro* and *In Vivo*. New Frontiers in Biomedical Research, Biomedical Research Building Dedication, The Pennsylvania State University College of Medicine, April 1993.
123. Kreider, J.W., Christensen, N.D., Pickel, M.D., and Orenberg, E.K. Inhibition of Shope rabbit papillomas with intralesional MPI 5003 and concordance with human condylomata acuminata responses. Society for Investigative Dermatology, Washington, D.C., April 1993
124. Yang, H.C., McElroy, R.J., Diamond, J.R., Kreider, J.W. *In situ* localization of platelet derived growth factor (PDGF)  $\beta$ -Chain mRNA in the glomeruli of rat kidneys with chronic rejection. Transplantation and Associated Immunology, 1993.
125. Kurtzman, G., Pickel, M., Christensen, N., and Kreider, J. Phosphonate nucleoside analogs are potent anti-papillomavirus agents in animal models. 33rd ICAAC Meeting, New Orleans, Louisiana, 1993.
126. Christensen, N.D., Cladel, N.M., DiAngelo, S.D., Welsh, P.A., Patrick, S.D., Budgeon, L.A., Reed, C.A., Kreider, J.W. Baculovirus-expressed HPV-11 L1 complexes are recognized by monoclonal neutralizing antibodies and induce high titers of anti-HPV-11 antibodies. 2nd International Workshop on HPV Immunology, University of Cambridge, England, July, 1993.
127. Christensen, N.D., Jenson, A.B., Kreider, J.W. Neutralization of Bovine Papillomavirus type 1 by monoclonal antibody. 2nd International Workshop on HPV immunology, University of Cambridge, England, 1993.
128. Kurtzman, G., Pickel, M., Christensen, N., Kreider, J. (S)-1-(3-hydroxy-2-phosphonylmethoxypropyl)cytosine (HPMPC) is a Potent Anti-papillomavirus Agent in Animal Models. 12th International Papillomavirus Conference, John Hopkins University, Baltimore, MD, 1993.
129. Ghim, S., Schlegel, R., Hines, J., Christensen, N., Kreider J. and Jenson, A.B. Comparison of PV Conformational Epitopes Expressed by L1 proteins in mammalian (cos) and insect (Sf9) cells. Cambridge Immunology HPV Meeting, Cambridge, England, 1993.
130. Kreider, John W., Pickel, M.D., Patrick, S., Welsh, P. Christensen, N.D., Orenberg, E.K., Intralesional Fluorouracil/Epinephrine Gel Chemotherapy for Treatment of Human Condylomata Acuminata Inhibits Latent Viral Infection and Induces Regression of Shope Rabbit Papillomas, HPV Meeting, Amsterdam, 1994.

**Abstracts and National Meetings (cont'd)**

131. Kreider, John W., Pickel, M.D., Patrick, S., Welsh, P., Christensen, N.D., Orenberg, E.K., Intralesional Fluorouracil/Epinephrine Gel Chemotherapy for Treatment of Human Condylomata Acuminata Inhibits Latent Viral Infection and Induces Regression of Shope Rabbit Papillomas, 34th ICAAC Meeting, Orlando, FL, 1994.
132. Kreider, J.W., Christensen, N.D. Model Systems for the Treatment of Human Papillomavirus Infections in Athymic Mice. The First Workshop on Antiviral Claims for Topical Antiseptics, Food and Drug Administration, Bethesda, MD, June 1994.
133. Kreider, J.W., Christensen, N.D., Pickel, M.D., Orenberg, E.K. Inhibition of Shope Rabbit Papillomas with Intralesional MPI 5003 and Concordance with Human Condylomata Acuminata Responses. 1994.

## Articles

1. Kreider, J.W. Studies on the Mechanism Responsible for the Spontaneous Regression of the Shope Rabbit Papilloma. *Cancer Res.* 23:1593-1599, 1963.
2. Kreider, J.W., Breedis, C. and Curran, J.S. Interactions of Shope Papilloma Virus and Rabbit Skin Cells *In Vitro*. I. Immunofluorescent Localization of Virus Inocula. *JNCI* 38:921-931, 1967.
3. Blough, H.A., Ballow, M. and Kreider, J.W. A Sandwich Technique for the Detection of Myxovirus Structural Proteins Using a Fluorescein-Conjugated Antibody Directed Against a Glycoprotein Substrate (Fetuin). *J. Immunol.* 100:209-213, 1968.
4. Kreider, J.W. An Improved Method for Feeding and Preparation of Small Volume Cell Cultures. *Appl. Microbiol.* 16:539, 1968.
5. Kreider, J.W. Some Practical Aspects of the Use of Laminar Air Flow Systems in Tissue Culture. *Appl. Microbiol.* 16:1804-1805, 1968.
6. Kreider, J.W. and Breedis, C. The Susceptibility of Fetal Rat Skin in Different Immunological Environments to Neoplastic Induction with Shope Papilloma Virus. *Cancer Res.* 29:989-993, 1969.
7. Kreider, J.W. and Lutz, S. The Use of Disposable Syringes in the Cornwall Automatic Pipette. *Am. J. Clin. Path.* 51:816, 1969.
8. Breedis, C. and Kreider, J.W. The Role of the Dermis in the Induction of Neoplasia by Shope Papilloma Virus. *Cancer Res.* 30:974-979, 1970.
9. Kreider, J.W. Stimulation of DNA Synthesis of Rat Salivary Gland Cells in Monolayer Cultures by Isoproterenol. *Cancer Res.* 30:980-983, 1970.
10. Kreider, J.W. A Device for Ensuring the Continuity of Air Supplies to CO<sub>2</sub> Incubators for Tissue Culture. *Appl. Microbiol.* 19:174-175, 1970.
11. Jones, R.E., Kreider, J.W. and Criley, B.B. Incubation Patch of the Chicken: Response to Hormones *In Situ* and Transplanted to a Dorsal Site. *Gen. Comp. Endocrinol.* 15:398-403, 1970.
12. Kreider, J.W., Benjamin, S.A., Pruchnic, W.F. and Strimlan, C.V. Immunologic Mechanisms in the Induction and Regression of Shope Papilloma Virus-Induced Epidermal Papillomas of Rats. *J. Invest. Derm.* 56:102-112, 1971.
13. Kreider, J.W., Half, H.M. and Roode, P.B. Growth of Human Skin on the Hamster. *J. Invest. Derm.* 57:66-71, 1971.
14. Kreider, J.W., Shoff, W. and Lengle, N. A Diffusion Chamber Method of the Detection of Lymphocyte-Mediated Cytotoxicity of <sup>125</sup>Iododeoxyuridine-labelled (IUdR) Tumor Cells. *Transplantation* 14:278-283, 1972.

## Articles (cont'd)

15. Kreider, J.W., DelVillano, B., Shoff, W. and Davidson, E.A. Suppression of SV<sub>40</sub> T Antigen in Transformed Cells by Chronic Treatment with BUdR. *Cancer Res.* 32:2148-2155, 1972.
16. Kreider, J.W. and Benjamin, S.A. Tumor Immunity and the Mechanism of Poly I-Poly C Inhibition of Tumor Growth. *JNCI* 49:1303-1310, 1972.
17. Kreider, J.W. and Bartlett, G.L. Recent Advances in Human Tumor Immunology, Part I, II. *Pennsylvania Med.* 75:No. 11, p. 58, No. 12, p. 25, 1972.
18. Goldman, P.M., Lang, C.M. and Kreider, J.W. Rabbit Kidney Vacuolating Virus in Spontaneous Shope Papillomas of Cottontail Rabbits. *JNCI* 49:1277-1282, 1972.
19. Kreider, J.W., DelVillano, B., Shoff, W. and Davidson, E.A. Bromo-deoxyuridine-Induced Suppression of SV<sub>40</sub> T Antigen. *Embryonic and Fetal Antigens in Cancer*, Vol. 2:303-307, 1972.
20. Kreider, J.W., Rosenthal, M. and Lengle, N. Cyclic Adenosine 3', 5'-Monophosphate in the Control of Melanoma Cell Replication and Differentiation. *JNCI* 50:555-558, 1973.
21. Rosenthal, M., Kreider, J.W. and Shiman, R. A Quantitative Assay of Melanin in Melanoma Cells in Culture and in Tumors. *Anal. Biochem.* 56:91-99, 1973.
22. Pass, F., Niimura, M. and Kreider, J.W. Prolonged Survival of Human Skin Xenografts. Failure to Produce Verrucae by Inoculation. *J. Invest. Derm.* 61:371-374, 1973.
23. Kreider, J.W., Matheson, D. and Beltz, B. Inhibition of Melanogenesis with BUdR Treatment in a Single Cycle of DNA Synthesis. *JNCI* 52:1537-1540, 1974.
24. Kreider, J.W., Flickinger, J.T., Lengle, N. and Shoff, W. A Lymphocytotoxicity Assay Not Requiring the *In Vitro* Culture of Target Tumor Cells. *Transplantation* 18:223-228, 1974.
25. Satoh, C., Banks, J., Horst, P., Kreider, J.W. and Davidson, E.A. Polysaccharide Production by Cultured B16 Mouse Melanoma Cells. *Biochemistry* 13:1233-1241, 1974.
26. Duff, R., Kreider, J.W., Levy, B.M., Katz, M. and Rapp, F. Comparative Pathology of Cells Transformed by Herpes Simplex Virus Type I or Herpes Simplex Virus Type II. *JNCI* 53:1159-1165, 1974.
27. Cecalupo, A.J., Kreider, J.W. and Noggle, M.E. Runt Syndrome Induced in the Rat by Polyinosinic Polycytidylic Acid. *JNCI* 54:129-136, 1975.
28. Kreider, J.W. and Cecalupo, A. Stimulation of Rat Graft-vs-Host Reactions by Polyinosinic:Polycytidylic Acid (Poly I:C) *Transplantation* 19:470-474, 1975.
29. Kreider, J.W., Wade, D., Rosenthal, M. and Densley, T. Maturation and Differentiation of B16 Melanoma Cells Induced by Theophylline Treatment. *JNCI* 54:1457-1467, 1975.
30. Purnell, D.M., Kreider, J. and Bartlett, G.L. Evaluation of the Antitumor Activity of Commercial Bordetella Pertussis Vaccines in the CaD2 and B16 Murine Tumor Models. *JNCI* 55:123-128, 1975.

Articles (cont'd)

31. Satoh, C., Kreider, J.W., Banks, J., Garlick, S. and Davidson, E.A. The Effects of 5-bromo-2-deoxyuridine (BUdR) on Complex Saacharide Production by Cultured B16 Melanoma Cells. *Cancer Res.* 35:2532-2539, 1975.
32. Banks, J., Kreider, J.W., Satoh, C. and Davidson, E.A. Properties of Acidic Saacharides Produced by B16 Melanoma Cells Treated with 1-Methyl-3-Isobutyl Xanthine. *Cancer Res.* 35:2383-2389, 1975.
33. Kreider, J.W. and Schmoyer, M.E. Spontaneous Maturation and Differentiation of B16 Melanoma Cells in Culture. *JNCI* 55:641-647, 1975.
34. Bartlett, G.L. and Kreider, J.W. (Technical Comment) BCG Inhibition of Melanoma: Specific? *Science* 188:1322, 1975.
35. Banks, J., Kreider, J.W., Bhavanadan, V.P. and Davidson, E.A. Anionic Polysaacharide Production and Tyrosinase Activation on Cultured Human Melanoma Cells. *Cancer Res.* 36:424-431, 1976.
36. Bartlett, G.L., Kreider, J.W. and Purnell, D.M. (Guest Editorial) Immunotherapy of Cancer in Animals: Models or Muddles? *JNCI* 56:207-210, 1976.
37. Kreider, J.W., Bartlett, G.L. and Purnell, D.M. Suitability of Rat Mammary Adenocarcinoma 13762 as a Model for BCG Immunotherapy. *JNCI* 56:797-802, 1976.
38. Kreider, J.W., Bartlett, G.L. and Purnell, D.M. Inconsistent Response of B16 Melanoma to BCG Immunotherapy. *JNCI* 56:803-810, 1976.
39. Bartlett, G.L., Purnell, D.M. and Kreider, J.W. BCG Inhibition of Murine Leukemia: Local Suppression and Systemic Tumor Immunity Require Different Doses. *Science* 191:299-301, 1976.
40. Purnell, D.M., Bartlett, G.L. and Kreider, J.W. Antitumor Activity of Killed Corynebacterium parvum Suspensions in a Murine Mammary Adenocarcinoma (CaD2) System. *JNCI* 56:1171-1175, 1976.
41. Kreider, J.W. (Book Review) *Viral Immunology and Immunotherapy* Editor, Abner L. Notkins, Academic Press, 1975. *American Society for Microbiology News* 42:319-320, 1976.
42. Shope, W.K., Hartman, F.E. and Kreider, J.W. Fluorescent Bone Labelling in White Leghorn Chicks and Pheasants Following Treatment of Laying Hens with Demethylchortetracycline. *J. Wildlife Manag.* 40:578-579, 1976.
43. Bartlett, G.L., Kreider, J.W. and Purnell, D.M. Relationship Between Intradermal Tumor Suppression and Tumor Immunity in the Skin. *JNCI* 57:1297-1303, 1976.
44. Geder, L., Kreider, J. and Rapp, F. Human Cells Transformed In Vitro by Human Cytomegalovirus: Tumorigenicity in Athymic Nude Mice. *JNCI* 58:1003-1009, 1977.
45. Bartlett, G.L., Katsilas, D.C., Kreider, J.W. and Purnell, D.M. Immunogenicity of "Viable" Tumor Cells after Storage in Liquid Nitrogen. *Cancer Immunol. Immunother.* 2:127-133, 1977.

# Articles (cont'd)

46. Purnell, D.M., Bartlett, G.L., Kreider, J.W. and Biro, T.G. Corynebacterium parvum and Cyclophosphamide as Combination Treatment for a Murine Mammary Adenocarcinoma. *Cancer Res.* 37:1137-1140, 1977.
47. Kreider, J.W., Bartlett, G.L., Purnell, D.M and Webb, S. Immunotherapy of an Established Rat Mammary Adenocarcinoma (13762A) with Intratumor Injection of Corynebacterium parvum. *Cancer Res.* 38:689-692, 1978.
48. Kreider, J.W., Bartlett, G.L. and DeFreitas, E. Abrogation of Tumor Rejection by Trypan Blue. *Cancer Res.* 38:1036-1040, 1978.
49. Bartlett, G.L., Kreider, J.W., Purnell, D.M. and Hockley, A.J. III. Treatment of Visceral Tumor with BCG-Tumor Cell Vaccine. *Cancer Immunol. Immunother* 4:15-20, 1978.
50. Kreider, J.W., Bartlett, G.L. and Purnell, D.M. Destruction of Regional Lymph Node Metastases of Rat Mammary Adenocarcinoma 13762A by Treatment with Corynebacterium Parvum. *Cancer Res.* 38:4522-4526, 1978.
51. Bartlett, G.L., Kreider, J.W. and Purnell, D.M. Potentiation of Immunity to Murine Leukemia (LSTRA) by Bacillus Calmette-Guerin. *Cancer Res.* 38:4401-4408, 1978.
52. Purnell, D.M., Bartlett, G.L. and Kreider, J.W. Effects of Dose and Schedule of Immune Stimulant on Efficacy of Combination Corynebacterium Parvum-Cyclophosphamide Treatment for a Murine Mammary Adenocarcinoma. *Cancer Res.* 39:1-5, 1979.
53. Kreider, J.W., Bartlett, G.L. and Sharkey, F.E. Primary Neoplastic Transformation In Vivo of Xenogeneic Skin Grafts on Nude Mice. *Cancer Res.* 39:273-276, 1979.
54. Kreider, J.W., Bartlett, G.L., Boyer, C.M. and Purnell, D.M. Conditions for Effective Bacillus Calmette Guerin Immunotherapy of Post Surgical Metastases of 13762A Rat Mammary Adenocarcinoma. *Cancer Res.* 39:987-992, 1979.
55. Geder, L., Ladda, R., Kreider, J., Sanford, E. and Rapp, F. Properties of Human Epithelioid Cells Transformed In Vitro by a Herpesvirus [IBRV(HMC)] Isolated from Cytomegalovirus-transformed Human Cells. *JNCI* 63:1313-1321, 1979.
56. Bartlett, G.L., Kreider, J.W. and Purnell, D.M. Active, Specific Immunotherapy of Murine Leukemia. I. Irradiated Tumor Cell Vaccine. *Int. J. Cancer* 24:629-635, 1979.
57. Bartlett, G.L., Kreider, J.W. and Purnell, D.M. Active, Specific Immunotherapy of Murine Leukemia. II. Adjuvant Effect of Corynebacterium Parvum. *Int. J. Cancer* 24:636-643, 1979.
58. Purnell, D.M., Bartlett, G.L., Kreider, J.W., Biro, T.G. and Kontra, J. Comparative Antitumor Effects of Corynebacterium Parvum, Bordetella Pertussis, Bacillus Calmette-Guerin and Levamisole Alone or in Combination with Cyclophosphamide in a Murine Mammary Adenocarcinoma (CAD<sub>2</sub>) System. *Cancer Res.* 39:4838-4842, 1979.
59. Kreider, J.W., Bartlett, G.L. and Purnell, D.M. Immunotherapeutic Effectiveness of BCG Inactivated by Various Modalities. *Cancer* 46:480-487, 1980.

# Articles (cont'd)

60. Bartlett, G.L., Kreider, J.W., Purnell, D.M. and Katsilas, D.C. Augmentation of Immunity to Line 10 Hepatoma by BCG. Comparison of Different BCG Preparations. Cancer 46:488-496, 1980.
61. Kreider, J.W. Neoplastic Progression of the Shope Rabbit Papilloma. In Viruses in Naturally Occurring Cancers, eds. Essex, M., Todaro, G. and zur Hausen, H., Vol. 7, Cold Spring Harbor Conferences on Cell Proliferation, pp. 283-299, 1980.
62. Kreider, J.W., Bartlett, G.L. and Purnell, D.M. Immunotherapy of Postoperative Metastases of 13762A Rat Mammary Adenocarcinoma: Comparative Effectiveness of BCG Substrains and Preparations. Cancer 46:500-507, 1980.
63. Bartlett, G.L., Kreider, J.W. and Purnell, D.M. Treatment of Cancer Using Corynebacterium Parvum. Similarity of Two Preparations in Four Animal Models. Cancer 46:685-691, 1980.
64. Boyer, C.M., Kreider, J.W. and Bartlett, G.L. Systemic Adoptive Transfer of Immunity to 13762A Rat Mammary Adenocarcinoma. Cancer Res. 41:2394-2400, 1981.
65. Bartlett, G.L. and Kreider, J.W. Animal Models for Evaluating Therapeutic Potential of Immune Stimulants. In Augmenting Agents in Cancer Therapy, eds. E.M. Herish et al, Raven Press, New York, 1981.
66. Kreider, J.W. and Bartlett, G.L. The Shope Papilloma-Carcinoma Complex of Rabbits: A Model System of Neoplastic Progression and Regression. Adv. Cancer Res. 35:81-110, 1981.
67. Isom, H.C., Tevethia, M.J. and Kreider, J.W. Tumorigenicity of Simian Virus 40-Transformed Rat Hepatocytes. Cancer Res. 41:2126-2134, 1981.
68. Sattler, F.R., Paolucci, S., Kreider, J.W. and Ladda, R.W. A Human Hepatoma Cell Line (PLC/PRF/5) Produces Lung Metastases and Secretes HB<sub>s</sub>Ag in Nude Mice. Eur. J. Cancer Clin. Oncol. 18:381-390, 1982.
69. Bartlett, G.L. and Kreider, J.W. Specific Unresponsiveness of Delayed Hypersensitivity to Corynebacterium parvum. Immunol. Comm. 10:719-731, 1982.
70. Boyer, C.M., Kreider, J.W. and Bartlett, G.L. Regulation of the Expression of Adoptive Tumor-Rejection Immunity to Recipient Cyclophosphamide-Sensitive Cells. Cancer Res. 41:2211-2215, 1982.
71. Titus, M.J., Bartlett, G.L. and Kreider, J.W. Corynebacterium parvum Prevents Immunization to Admixed Irradiated Tumor Cells by a Localized Process. Int. J. Cancer 29:699-705, 1982.
72. Landi, M.S., Kreider, J.W., Lang, C.M. and Bullock, L.P. Effects of Shipping on the Immune Functions in Mice. Am. J. Vet. Res. 43:1654-1658, 1982.
73. Thompson, C., Kreider, J.W., Black, P.L., Schmidt, T.J. and Margules, D.L. Genetically Obese Mice: Resistance to Metastasis of B16 Melanoma and Enhanced T-Lymphocyte Mitogenic Responses. Science 220:1183-1185, 1983.

# Articles (cont'd)

74. Elzuru, Y., Hyman, R.W., Kreider, J.W. and Rapp, F. Detection of Virus-Specific RNA In A Herpes Simplex Virus Type-1 Transformed Hamster Cell Line. *JNCI* 71:397-400, 1983.
75. Isom, H.C., Mummaw, J. and Kreider, J.W. Malignant Transformation of Guinea Pig Cells After Exposure to Ultraviolet-irradiated Guinea Plg Cytomegalovirus. *Virology* 126:693-700, 1983.
76. Kreider, J.W., Bartlett, G.L. and Butkiewicz, B.L. Relationship of Tumor Leucocytic Infiltration to Host Defense Mechanisms and Prognosis. *Cancer Metastasis Rev.* 3:53-74, 1984.
77. Thompson, C.I., Kreider, J.W. and Margules, D.L. Food Intake During Tumor Growth: Anorexia in Genetically Obese OB/OB Mice and Hyperphagia in Lean Mice. *Physiol. Behav.* 32:935-939, 1984.
78. Hartman, F.E., Shope, W. and Kreider, J.W. Pheasants, pp. 49-55, In: *A Guide to Time of Death In Selected Wildlife Species*, (eds.) D.W. Oates, J.L. Coggin, F.E. Hartman and G.I. Hallien, Nebraska Technical Series No. 14, Nebraska Game and Parks Commission, Lincoln, Nebraska, 1984.
79. Kreider, J.W., Howell, L.E. and Bartlett, G.L. Characteristics of T Cells Involved in the Expression of Delayed Hypersensitivity and Tumor Rejection Immunity to 13762A Rat Mammary Adenocarcinoma. *Cell. Immunol.* 93:26-37, 1985.
80. Kreider, J.W. and Bartlett, G.L. Increased Immunogenicity and Immunosensitivity of a Variant Clone of the 13762A Rat Mammary Adenocarcinoma. *JNCI* 75:141-149, 1985.
81. Kreider, J.W., Bartlett, G.L., Christensen, N.D. and Welsh, P.A. Systemic Adoptive Transfer of Immunity and Low Dose Irradiation Eradicate Metastases of 13762A Rat Mammary Adenocarcinoma. *Int. J. Cancer* 36:217-224, 1985.
82. Kreider, J.W. and Bartlett, G.L. The Shope Papilloma Carcinoma Complex of Rabbits: A Model System of Human Papillomavirus Infections. *Clin. Dermatol.* 3:20-26, 1985.
83. Landi, M., Kreider, J.W., Lang, C.M. and Bullock, L.P. Effect of Shipping on the Immune Functions of Mice. 8th ICLAS/CALAS Symp., Vancouver 1983, Gustav Fischer Verlag, Stuttgart, New York, 1985, pp. 11-18.
84. Kreider, J.W., Howett, M.K., Wolfe, S.A., Bartlett, G.L., Zaino, R.J., Sedlacek, T.V. and Mortal, R. Morphological Transformation *In Vivo* of Human Uterine Cervix with Papillomavirus from Condylomata Acuminata. *Nature* 317:639-641, 1985.
85. Osbakken, M.D., Kreider, J.W. and Taczanowsky, P. Magnetic Resonance Imaging Characteristics of a Rat Mammary Tumor. *Magn. Reson. Med.* 3:1-9, 1986.
86. Kreider, J.W. "Discussion" In *Immunity to Cancer*, eds. Relf, A.E. and Mitchell, M.J., p. 15-16, Academic Press, Inc., New York, 1985.
87. Kreider, J.W. and Bartlett, G.L. Is There a Host Response to Metastases? In *Cancer Metastases: Experimental and Clinical Strategies*, eds. Welsh, D.R., Bhuyan, B.K. and Liotta, L.A., Alan R. Liss, Inc., New York, 1986.



# Articles (cont'd)

88. Christensen, N.D., Kreider, J.W., Bartlett, G.L. and Horetsky, R.L. Distinct T-Cell Proliferative Responses to 13762A Rat Mammary Adenocarcinoma and Derived Clones. *Cell. Immunol.* 97:433-445, 1986.
89. Howell, L.E., Kreider, J.W. and Bartlett, G.L. Role of T Cell Subsets in the Destruction of Established Metastases of 13762A Rat Mammary Adenocarcinoma. *JNCI* 77:187-193, 1986.
90. Kreider, J.W., Howett, M.K., Lill, N., Bartlett, G.L., Zaino, R.J., Sedlacek, T.V. and Mortel, R. Induction In Vivo of Condylomatous Transformation of Human Skin with HPV-11 from Condylomata Acuminata. *J. Virol.* 59:369-376, 1986.
91. Kreider, J.W. and Howett, M.K. Morphological Transformation In Vivo of Human Uterine Cervix, Skin and Larynx with Papillomavirus from Condylomata Acuminata. Proceedings of IX International Congress of Infectious Diseases, Munich, West Germany, July 1986.
92. Kreider, J.W. and Howett, M.K. Human Papillomavirus-11 Infection of Xenografted Human Tissues. In Viruses and Human Cancer, UCLA Symposia on Molecular and Cellular Biology, New Series, Vol. 43, eds. Gallo, R.C., Haseltine, W., Klein, G. and zur Hausen, H., Alan R. Liss, Inc., New York, NY, pp. 371-385, 1987.
93. Kreider, J.W. Experimental Models of Papillomavirus Infections. *Curr. Top. OB/GYN* January, 1987.
94. Kreider, J.W., Howett, M.K., Stoler, M., Leure-Dupree, A.E. and Zaino, R.J. Tissue-specific Expression of Human Papillomavirus Type 11. In Cancer Cells 5/Papillomaviruses, Cold Spring Harbor Laboratory, pp. 215-221, 1987.
95. Lookingbill, D.P., Kreider, J.W., Howett, M.K., Olmstead, M.P. and Conner, G.H. Human Papillomavirus Type 16 in Bowenoid, Papulosis, Intraoral Papillomas and Squamous Cell Carcinoma of the Tongue. *Arch. Dermatol.* 123:363-368, 1987.
96. Kreider, J.W. Sexually Transmitted Diseases: Papillomaviruses. *Biomed. Pharmacol. Ther.* 40:274, 1986.
97. Kreider, J.W., Howett, M.K., Leure-Dupree, A.E. and Zaino, R.J., Weber, J.A. Laboratory Production In Vivo of Infectious Human Papillomavirus Type 11. *J. Virol.* 61:590-593, 1987.
98. Kreider, J.W., Howett, M.K., Stoler, M., Zaino, R.J. and Welsh, P.A. Susceptibility of Various Human Tissues to Transformation In Vivo with Human Papillomavirus Type 11. *Int. J. Cancer* 39:459-465, 1987.
99. Geder, L., Kreider, J.W., Towfighi, J., Page, R.B., Ladda, R.L., Brennan, R.W. and Rapp, F. Effect of Differentiation Inducers on Growth Characteristics of Human Glioma Cell Line. *J. Neuro-Oncol.* 5:251-271, 1987.
100. Christensen, N.D., Kreider, J.W. and Horetsky, R.L. A Suppressor Lymphokine Produced by Rat T-cells in Response to the Syngeneic Mammary Adenocarcinoma 13762A. *Cancer Res.* 48:943-949, 1988.

Articles (cont'd)

101. Christensen, N.D. and Kreider, J.W. Helper and Suppressor Functions of Panned Populations of Immune Peritoneal T Cells with Reactivity to the Rat Mammary Adenocarcinoma 13762A. *Cell. Immunol.* 112:200-213, 1988.
102. Kreider, J.W. and Howett, M.K. Xenografts of Human Tissues as a Model System for the Study of Co-Factors in Uterine Cervical Carcinogenesis. In *Herpes and Papilloma Viruses, Their Role in the Carcinogenesis of the Lower Genital Tract - II*, Vol. 46, eds. De Palo, G., Rilke, F. and zur Hausen, J., Raven Press, New York, NY, pp. 115-128, 1988.
103. Woodworth, C.D., Kreider, J.W., Mengel, L., Miller, T., Meng, Y. and Isom, H.C. Tumorigenicity of Simian Virus 40-Hepatocyte Cells Lines: Effect of In Vitro and In Vivo Passage on Expression of Liver-Specific Genes and Oncogenes. *Mol. Cell. Biol.* 8:4492-4501, 1988.
104. Geder, S., Metz, K.R., Towfighi, J., Milkus, J.L., Williams, G.D., Gaydos, A.J., and Kreider, J.W. Effect of Dimethylsulfoxide on Human Gliomas: Correlations between the Magnetic Resonance Spectra and the Transformed Phenotypes of the Tumor Cells. *Neurofibromatosis* 2:23-34, 1989.
105. Dollard, S.C., Chow, L.T., Kreider, J.W., Broker, T.R., Lill, N.L. and Howett, M.K. Characterization of an HPV Type-11 Isolate Propagated in Human Foreskin Implants in Nude Mice. *Virology* 171:294-297, 1989.
106. Kreider, J.W. Immunological Aspects of Papillomaviruses. (Extended Abstract) Proceedings of the Second Annual Meeting of Medical Laboratory Immunologists (AMLI), Albany, New York, 1989.
107. Kreider, J.W., Zaino, R., Welsh, P.A. and Patrick, S.D. Host Factors Regulating Survival and Growth of HPV-Transformed Human Cells. In *Papillomaviruses*, eds., Howley, P. and Broker, T., Alan R. Liss, Inc., New York, NY, pages 199-209, 1990.
108. Kreider, J.W. Book Review: *Nucleic Acid Probes in Diagnosis of Human Genetic Diseases*, Ann M. Wiley (ed), Alan R. Liss, Inc., New York, *Am. J. Pathol.* 20:717, 1989.
109. Cockley, K.D., Dolan, E., Hendrickson, W., Kreider, J.W. and Howett, M.K. Analysis of Human Papillomavirus Type 11 (HPV-11)-Specific mRNA Synthesis in HPV-Infected Human Tissue In Vivo. In *Papillomaviruses*, eds., Howley, P. and Broker, T., Alan R. Liss, Inc., New York, NY, pages 393-403, 1990.
110. Bromley, S.E., Darfler, M.M., Hammer, M.L., Jones-Trower, A., Primus, M.A. and Kreider, J.W. In Situ Hybridization to Human Papillomavirus DNA in Fixed Tissue Samples: Comparison of Detection Methods. In *Papillomaviruses*, eds., Howley, P. and Broker, T., Alan R. Liss, Inc., New York, NY, pages 35-44, 1990.
111. Kreider, J.W. Model Systems for Human Papillomavirus Infections. *Curr. Probl. Obstet. Gynecol. Fertil.* 12:120-123, 1989.
112. Choudhury, S., Pegg, A., Kreider, J.W., Mayo, D.R. and Howett, M.K. Administration of Ethylnitrosourea to Neonate Hamsters Increases Growth and Frequency of SV40-induced Fibrosarcomas. *Proc. Soc. Exp. Biol. Med.* 192:72-77, 1989.

# Articles (cont'd)

113. Christensen, N.D., Kreider, J.W., Cladel, N.M. and Galloway, D.A. Immunological Cross-Reactivity to Laboratory-Produced HPV-11 Virions of Polysera Raised Against Bacterially-Derived Fusion Proteins and Synthetic Peptides of HPV-6b and HPV-16 Capsid Proteins. *Virology* 175:1-9, 1990.
114. Howett, M.K., Kreider, J.W. and Cockley, K.D. Human Xenografts: A Model System for Human Papillomavirus Infection. *Intervirology* 31:109-115, 1990.
115. Kreider, J.W., Patrick, S.D., Cladel, N.M. and Welsh, P.A. Experimental Infection with Human Papillomavirus Type 1 of Human Hand and Foot Skin. *Virology* 177:415-417, 1990.
116. Christensen, N.D. and Kreider, J.W. Antibody-Mediated Neutralization of Infectious Papillomaviruses *In Vivo*. *J. Virol.* 64:3151-3156, 1990.
117. Stoler, M.H., Whitbeck, A., Wolinsky, S., Broker, T., Chow, L., Howett, M.K. and Kreider, J.W. Infectious Cycle of Human Papillomavirus Type 11 in Human Foreskin Xenografts in Nude Mice. *J. Virol.* 64:3310-3318, 1990.
118. Kreider, J.W., Balogh, K., Olson, R.O. and Martin, J.C. Treatment of Latent Rabbit and Human Papillomavirus Infections with 9-(2-Phosphonylmethoxy)Ethylguanine (PMEG). *Antiviral Res.* 14:51-58, 1990.
119. Christensen, N.D., Kreider, J.W., Cladel, N.M., Patrick, S.D., and Welsh, P.A. Monoclonal Antibody-Mediated Neutralization *In Vivo* of Infectious Human Papillomavirus Type 11. *J. Virol.* 64:5678-5681, 1990.
120. Christensen, N.D., Kreider, J.W., Kan, N.C., and DiAngelo, S.L. The Open Reading Frame L2 of Cottontail Rabbit Papillomavirus Contains Antibody-Inducing Neutralizing Epitopes. *Virology* 181:572-579, 1991.
121. Ghim, S., Christensen, N.D., Kreider, J.W., and Jenson, A.B. Comparison of neutralization of BPV-1 infection of C127 cells and bovine fetal skin xenografts. *Intl. J. Cancer* 49:285-289, 1991.
122. Okabayashi, M., Angell, M.G., Christensen, N.D., and Kreider, J.W. Morphometric Analysis of Infiltrating Leucocytes in Regressing Papillomas and Progressing Shope Rabbit Papillomas. *Intl. J. Cancer* 49:919-923, 1991.
123. Christensen, N.D. and Kreider, J.W. Neutralization of CRPV Infectivity by Monoclonal Antibodies that Identify Conformational Epitopes on Intact Virions. *Virus Res.* 21:169-179, 1991.
124. Isom, H.C., Woodworth, C.D., Meng, Y., Kreider, J., Miller, T., and Mengel, L. Introduction of the *ras* Oncogene Transforms an SV40-Immortalized Hepatocyte Cell Line Without Loss of Expression of Albumin and Other Liver-specific Genes. *Cancer Res.* 52:940-948, 1992.
125. Christensen, N.D., Kreider, J.W., Shah, K.V., and Rando, R.F. Detection of Human Serum Antibodies that Neutralize Infectious HPV-11 Virion. *J. Gen. Virol.* 73:1261-1267, 1992.

# Articles (cont'd)

126. Angell, M.G., Christensen, N.D., and Kreider, J.W. An *In Vitro* System for Studying the Initial Stages of Cottontail Rabbit Papillomavirus (CRPV) Infection. *J. Virol. Methods* 39:207-216, 1992.
127. Carpenter, J.L., Kreider, J.W., Alroy, J., Schmidt, G.M. Cutaneous Xanthogranuloma and Viral Papilloma on a Eyelid of a Cat. *Vet. Dermatol.* 3:187-190, 1992.
128. Kreider, J.W., and Christensen, N.D. Significance of Papillomavirus Conformational Epitopes in the Immunological Diagnosis, Treatment, and Prevention of Infections. *Clin. Immunol. Newslet.* 12 - 7:102-106, 1992.
129. Kreider, J.W., Christensen, N.D., Christian, C.B., and Pickel, M.D. Preclinical System for Evaluating Topical Podofilox Treatment of Papillomas: Dose-Response and Duration of Growth Prior to Treatment. *J. Invest. Dermatol.* 99:813-818, 1993.
130. Okabayashi, M., Angell, M.G., Budgeon, L.R., and Kreider, J.W. Shope Papilloma Cell and Leukocyte Proliferation in Regressing and Progressing Lesions. *Am. J. Pathol.* 142:489-496, 1993.
131. Peng, X., Kreider, J.W., Olson, R.O., Christian, C.B., and Lang, C.M. Papillomas and Carcinomas in Transgenic Rabbits Carrying EJ-*ras* DNA and Cottontail Rabbit Papillomavirus DNA. *J. Virol.* 67:1698-1701, 1993.
132. Helm, K.F., Höpfel, R.M., Kreider, J.W., and Lookingbill, D.P. Verruciform Xanthoma in an Immunocompromised Patient: A Case Report and Immunohistochemical Study. *J. Cutan. Pathol.* 20:84-86, 1993.
133. Wisotzkey, J.D., Krizenoskas, A., DiAngelo, S. and Kreider, J.W. Cleavage of Cottontail Rabbit Papillomavirus E7 RNA with an anti-E7 Ribozyme. *Biochem. Biophys. Res. Comm.* 192:833-839, 1993.
134. Christensen, N.D., and Kreider, J.W. Monoclonal Antibody Neutralization of BPV-1. *Virus Res.* 28:195-202, 1993.
135. Thompson, C.I., Margules, D.L., Kreider, J.W., Boha, S.P., Rejer, R.E., Jr., Quirey, R.A., and Reitz, J.A. A Propensity to Form Conditioned Taste Aversions Augments the Anorexia of Obese (Ob/Ob) Mice with B16 Melanoma. *Behav. Neurosci.* 107:786-798, 1993.
136. Höpfel, R.M., Christensen, N.D., Angell, M.G., and Kreider, J.W. Skin Test to Assess Immunity Against Cottontail Rabbit Papillomavirus Antigens in Rabbits with Progressing Papillomas or after Papilloma Regression. *J. Invest. Dermatol.* 101:227-231, 1993.
137. Roberts, S., Ashmole, I., Johnson, G.D., Kreider, J.W., Gallimore, P.H. Cutaneous and Mucosal Human Papillomavirus E4 Proteins Form Intermediate Filament-like Structures in Epithelial Cells. *Virol.* 197:176-187, 1993.
138. Okabayashi, M., Pickel, M.D., Budgeon, L.R., Cladel, N.M., and Kreider, J.W. Podofilox-Induced Regression of Shope Papillomas, may be Independent of Host Immunity. *J. Invest. Dermatol.* 101:852-857, 1993

# Articles (cont'd)

139. Kreider, J.W. and Pickel, M.D. Influence of Schedule and Mode of Administration on Effectiveness of Podofilox Treatment of Papillomas. *J. Invest. Dermatol.* 101:614-618, 1993.
140. Höpfli, R.M., Christensen, N.D., Heim, K., Kreider, J.W. Skin Test Reactivity to Papilloma Cells is Long Lasting in Domestic Rabbits After Regression of Cottontail Rabbit Papillomavirus Induced Papillomas. *Immunology of Human Papillomaviruses* 259-265, 1994.
141. Gangemi, J.D., Pirisi, L., Angell, M., Kreider, J.W. HPV Replication in Experimental Models: Effects of Interferon. *J. Antiviral Res.* 24:175-190, 1994.
142. Ghim, S.J., Schlegel, R., Hines, J.P., Christensen, N.D., Kreider, J. and Jenson, A.B. Comparison of pV Conformational Epitopes Expressed by L1 Proteins in Mammalian (CS) and Insect (Sf9) Cells. *Immunology of Human Papillomaviruses* 147-154, 1994.
143. Christensen, N.D., Hopfl, R., DiAngelo, S.L., Cladel, N.M., Patrick, S.D., Welsh, P.A., Budgeon, L.R., Reed, C.A., Kreider, J.W. Assembled baculovirus-expressed HPV-11 L1 virus-like particles are recognized by neutralizing monoclonal antibodies and induce high titers of neutralizing antibodies. *J. Gen. Virol.* 75:2271-2276, 1994.
144. Kreider, J.W., Christensen, N.D. Model Systems for the Treatment of Human Papillomavirus Infections in Athymic Mice. FDA Workshop on Antiviral Claims for Topical Antiseptics (in press), 1994.
145. Miller, B.A., Floros, J., Cheung, J.Y., Wojchowski, D.M., Bell L., Begley, C.G., Williams, D.E., Lyman, S.D., Kreider, J., Christian, C. Influence of Steel Factor on SCL Expression During Normal Erythroid Differentiation. *Blood.* (in press), 1994.
146. Hines, J.F., Ghim, S.J., Christensen, N.D., Kreider, J.W., Barnes, W.A., Schlegel, R., and Jenson, A.B. Role of Conformational Epitopes Expressed by Human Papillomavirus Major Capsid Proteins in the Serologic Detection of Infection and prophylactic Vaccination. *Gynecol. Oncol.* (in press), 1994.
147. Christensen, N.D., Kirnbauer, R., Schiller, J.T., Ghim, S-J., Schlegel, R., Jenson, A.B., Kreider, J.W. Human Papillomavirus Types 6 and 11 Have Antigenically Distinct Strongly Immunogenic Conformationally Dependent Neutralizing Epitopes. *Virology* (in press), 1994.
148. Peng, X., Lang, C.M. and Kreider, J.W. Methylation of Cottontail Rabbit Papillomavirus DNA and Tissue-Specific Expression in Transgenic Rabbits. *Virus Res.* (Submitted for Publication), 1994.
149. Okabayashi, M., Angell, M.A., Christian, C.B., Olson, R.O. and Kreider, J.W. Increased Class I and II MHC Antigen Expression in Regressing and Progressing Shope Papillomas. *J. Invest. Dermatol.* (Submitted for Publication), 1993.
150. Chungen, D., Olson, R.O., Christian, C.B., Budgeon, L.R., and Kreider, J.W. Over-Expression of Epidermal Growth Factor Receptor Gene, Transcripts and Protein in Human Foreskin Xenografts Infected with HPV-11. *Am. J. Pathol.* (Submitted for Publication), 1993.
151. Peng, X., Lang, C.M. and Kreider, J.W. immortalization of Inbred Rabbit Keratinocytes from Shope Papillomas and Tumorigenic Transformation of the Cells by EJras. *J. Virol.* (Submitted

for Publication), 1993.

152. Miller, B.A., Cheung, J.Y., Wojchowski, D.M., Bell, L., Williams, D.E., Lyman, S.D., Kreider, J.W., Christian, C. Influence of Stem Cell Factor on SCL Expression During Normal Erythroid Differentiation. *Blood* (Submitted for Publication), 1993.
153. Thompson, C.I., Margules, D.L., Kreider, J.W., Folkening, J.W., Haffley, B.J., and Lewis, J.E. OB/OB Mice Survive B16 Melanoma Increasingly Longer Than Lean Mice as Inoculation Age Increases From 4 to 13 Months. *Int. J. Cancer* (Submitted for Publication), 1994.
154. Hagari, Y., Budgeon, L.R., Pickel, M.D., Kreider, J.W. Association of Tumor Necrosis Factor- $\alpha$  Gene Expression and Apoptotic Cell Death with Regression of Shope Papillomas. *J. Invest. Dermatol.* (Submitted for Publication), 1994.
155. Helno, P., Skyldberg, B., Lethinen, M., Rantala, I., Hagmar, B., Kreider, J.W., Kirnbauer, R., and Dillner, J. Human Papillomavirus Type 16 Capsids Expose Multiple Type-restricted and Type-common Antigenic Epitopes. (Submitted for Publication), 1994.
156. Smith, L.H., Foster, C., Hitchcock, M.E., Isseroff, R., Christensen, N.D., Kreider, J.W. Antibody Neutralization of HPV-11 Infection Using Cultured Human Keratinocytes. (Submitted for Publication), 1994.

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**Personal**

**Born:** March 24, 1937, Philadelphia, Pennsylvania

**Married:** June, 1963 to Kathleen Ann

**Children:** Two, Eric and Ted

**1955-1959** A.B. in Biology cum laude  
La Salle College, Philadelphia, Pennsylvania  
Alpha Epsilon Delta

**1959-1963** M.D., University of Pennsylvania School of Medicine  
Research Trainee in Department of Pathology

**1963-1964** Internship in Pathology  
Yale University Medical School, New Haven, Connecticut

**1964-1967** Post-doctoral Fellow, Department of Pathology  
University of Pennsylvania  
Affiliate Resident, Philadelphia General Hospital

**Appointments**

**1967-1968** Instructor, Department of Pathology  
University of Pennsylvania

**1968-1971** Assistant Professor, Department of Pathology  
College of Medicine, Pennsylvania State University

**1971-1978** Associate Professor, Department of Pathology  
College of Medicine, Pennsylvania State University

**1973-present** Joint Appointment, Department of Microbiology  
College of Medicine, Pennsylvania State University

### **Appointments (cont'd)**

<b>1978-present</b>	<b>Professor, Departments of Pathology and Microbiology, College of Medicine, Pennsylvania State University</b>
<b>1968-1972</b>	<b>Lecturer, Graduate Faculty, Pennsylvania State University</b>
<b>1972-1975</b>	<b>Associate Member, Graduate Faculty, Pennsylvania State University</b>
<b>1975-present</b>	<b>Senior Member, Graduate Faculty, Pennsylvania State University</b>
<b>1975-present</b>	<b>Chief, Division of Experimental Pathology, Department of Pathology</b>
<b>1976-1986</b>	<b>Member and Program Director, Specialized Cancer Center, Pennsylvania State University</b>
<b>1987-present</b>	<b>Member, Cell and Molecular Biology Program, Pennsylvania State University</b>

### **Scientific Society Memberships**

**American Association Advancement of Sciences  
Tissue Culture Association  
Philadelphia Pathological Society  
American Society of Microbiology  
Allegheny Branch, American Society of Microbiology  
American Association for Cancer Research  
American Society for Experimental Pathology  
Wildlife Disease Association  
American Association of Pathologists and Bacteriologists  
American Association of Immunologists  
Wainwright Tumor Clinic Association of Pennsylvania  
American Society for Preventive Oncology  
International Society for Antiviral Research**

### **License**

**M.D.                      029125 Commonwealth of Pennsylvania**

### **Community Service**

<b>1964-1978</b>	<b>Deputy Game Protector, Pennsylvania Game Commission</b>
<b>1969</b>	<b>Lay Advisory Committee, Lower Dauphin School District</b>
<b>1987</b>	<b>Judge, The Harrisburg Academy Science Fair</b>



## Awards

- |   |  |
|---|--|
| 1963  | Borden Undergraduate Medical Research Award  |
| 1963  | Meritorious Medical Research Award, American Society of Clinical Pathology   |
| 1969-1973   | Research Career Development Award, U.S.P.H.S.  |
| 1984  | Wildlife Conservationist Award, Pennsylvania Game Commission   |
| 1980, 1981, 1982,<br>1983, 1984, 1985,<br>1986, 1987, 1989,<br>1990, 1992 | Teaching Excellence Awards, Presented by Second Year<br>Medical Students   |
| 1988  | Elected to membership, Alpha Omega Alpha, National Medical Honorary<br>Fraternity  |
| 1987-1988   | Sabbatical Leave, The Pennsylvania State University  |
| 1990  | University Faculty Scholar Medal for Outstanding Achievement in Health and<br>Life Sciences, The Pennsylvania State University |

## University Committee Memberships

- |              |   |
|--------------|---|
| 1967-1968    | Faculty Advisor, University of Pennsylvania   |
| 1969-present | Faculty Advisor, The Pennsylvania State University  |
| 1969-1970    | Medical Selection Committee (Admissions)  |
| 1969-1970    | Ad hoc Committee on Student Problem-Solving Projects  |
| 1969-1971    | Ad hoc Committee on Individualized Instruction  |
| 1969-1971    | Advisor, Student Newspaper  |
| 1970-1978    | Chairman, Medical Education Subcommittee, Pennsylvania Division, American<br>Cancer Society |
| 1970-1971    | Founding President, Faculty Organization, College of Medicine                               |
|              | Faculty Representative on Executive Committee   |
|              | Ad hoc Committee on Senate Reorganization   |
|              | Ad hoc Committee on Environmental Relations   |
| 1971-1979    | Cancer Committee, Milton S. Hershey Medical Center Hospital                                 |

### University Committee Memberships (cont'd)

1971-1972	Curriculum Committee (Planning of "New" Curriculum)
1972-1974	Planning Committee for Cancer Center at Hershey (Planning of Community-Oriented "Outreach" Program)
1973	Chairman, Nominating Committee, Faculty Organization
1973-1979	Founding Chairman, American Cancer Society Institutional Research Grant Committee
1975	Research Initiation Grant Review Committee
1975-present	Chair, Department of Pathology Promotion and Tenure Committee
1975-present	University Hearing Board, Faculty Alternate
1976-1978	Chemical Safety Committee
1979	Basic Science Program Coordinator, Specialized Cancer Research Center
1979	Ad hoc Discrimination Review Committee
1987	Task Force for Planning Cancer Center
1988-present	Member, Hinkle Society
1989	Research Animal Utilization Group
1989	Library Advisory Committee
1989	Member, Rheumatology Endowed Chair Search Committee
1989	Promotion and Tenure Review Committees, Department of Obstetrics/Gynecology, Department of Comparative Medicine
1989-present	Chairman, Experimental Pathology Faculty Search Committee
1990	Faculty Organization Nominating Committee
1990	Promotion and Tenure Review Committee, George T. Harrell Medical Library
1990	Promotion and Tenure Review Committee, Department of Comparative Medicine
1990-1995	AOA Nominating Committee, Chairman
1991	American Cancer Society - Institutional Research Grant Committee
1991	Hershey Biotechnology Park Planning Committee

### **University Committee Memberships (cont'd)**

**1991-present**            **Member, Biological Chemistry Chair Search Committee**

**1993-present**            **Member, Cancer Center Task Force**

### **Extra-Mural Consultantships Peer Review Activities:**

**1964-present**            **Regular Reviewer for Journals: Cancer Research, Journal of the National Cancer Institute, Journal of Immunology, Science**

**Ad hoc Grant Reviews: American Cancer Society, Leukemia Society, National Science Foundation**

**1970**                      **N.I.H. Division of Research Grants, Arthritis and Metabolic Diseases Program-Project, ad hoc committee (site visit)**

**1974**                      **National Cancer Institute Cancer Center Review, ad hoc committee (site visit)**

**1975**                      **Biology and Immunology Segment, Carcinogenesis Program, DCCP, NCI, NIH, ad hoc committee (site visit)**

**1976**                      **Cancer Special Program Advisory Committee, NCI, NIH, ad hoc committee (site visit)**

**1977**                      **Sinclair Swine Melanoma External Advisory Immunology Task Force, University of Missouri**

**1977-1980**                **Veterans Administration Merit Review Board for Immunology ("study section" for review of nationwide VA research)**

**1978**                      **Cancer Special Program Advisory Committee, NCI, NIH, ad hoc study section (site visit)**

**1979**                      **Environmental Protection Agency, (U.S.), establishment of research priorities**

**1979, 1980**                **Pathology B Study Section, NIH, ad hoc reviewer**

**1980**                      **Chairman, Special Study Section, NIH**

**1980-1984**                **Pathology B Study Section, NIH, member**

**1981-1989**                **Editorial Board, Cancer Metastasis Reviews**

**1984**                      **NIH, National Institute on Drug Abuse Special Study Section**

**1984-1988**                **Study Section for Institutional Research Grants, National Office, American Cancer Society**

**1985**                      **Special Study Section, DRG, NIH**

1986 Metabolic Pathology Study Section, DRG, NIH  
 Peer Review Activities (cont'd)  
 1986 Special Study Section (Chemical Pathology), DRG, NIH  
 1986 Special Study Section (Experimental Immunology), DRG, NIH  
 1986 Special Reviewer, Conference Grant, DRG, NIH  
 1986-1987 Member, NCI Outstanding Investigator Award Committee, DRG, NIH  
 1988 Member, Ad Hoc Technical Review Group for Contract Proposals, NCI, NIH  
 1988 Chair, Special Study Section, DRG, NIH  
 1990 Member, NIAID, NIH Antiviral Testing Group, Contract Reviews  
 1990 Reviewer, Viral Contracts Review, NIAID, NIH, Antiviral Testing Group  
 1990 Reviewer, Special Study Section (RFA), DRG, NIH  
 1990,1991 Reviewer, Ciba-Geigy Scholars in Biomedical Research, Hershey Medical Center  
 1991 Reviewer, Special Study Section (RFA), NIAID, NIH  
 1992 Reviewer, Special Study Section (RFA), NCI, NIH  
 1992 Chairperson, Special Study Section (Experimental Virology), DRG, NIH  
 1992 Chair, Special Study Section, NCI, NIH  
 1993 Special Review, Special Study Section, NCI Outstanding Investigator Award Committee, DRG, NIH  
 1993 Reviewer, ASHA Research Fund Program  
 1993 Special Reviewer, NCI Conference Call  
 1994 Reviewer, Study Section, NIH  
 1994 Reviewer, ASHA Research Fund Program  
  
 American Cancer Society:  
 1970 Member-At-Large, Professional Education Committee, Pennsylvania Division, American Cancer Society  
 1970-1975 Chairman and Founder, American Cancer Society Institutional Research Grant, Hershey Medical Center  
 1971-1974 Vice-Chairman, Professional Education Committee, Pennsylvania Division, American Cancer Society  
 1973-1976 Member, Board of Directors, American Cancer Society, Dauphin County Unit

1973-1976	Member, Professional Education Committee, Dauphin County Unit, American Cancer Society
1974-1975	Chairman, Professional Education Committee, Member, Executive Committee, Budget & Finance Committee Pennsylvania Division, American Cancer Society
1991-present	Member, American Cancer Society Institutional Research Grant Committee, Hershey Medical Center
<b>Miscellaneous Consultancies:</b>	
1964-present	Pennsylvania Game Commission, Consultant and Lecturer on Forensic Pathology and Wildlife Diseases
1966	Department of Public Health Commonwealth of Pennsylvania (Inspection of Clinical Laboratories)
1973-present	Industrial Consultant: Belco Glass Co., Vineland, N.J.
1974-1977	Tissue Culture Association, Sera and Contamination Committee
1975	Nominations Committee, American Society of Microbiology, Allegheny Branch
1976	Membership Committee, American Society of Microbiology, Allegheny Branch
1985	Genital Papillomavirus Program, Pennsylvania Hospital, Philadelphia, PA
1986	Dept. of Public Health, Commonwealth of Pennsylvania Consultant on potential cancer risks of abandoning Blue Shield reimbursements for circumcisions
1987-present	Blue Cross/Blue Shield for State of Pennsylvania Consultant for evaluation of cancer risks and educational programs to replace circumcision reimbursements
1987-present	Industrial consultant: Upjohn Co., Triton Biologicals, Syntex Inc., Exovir Inc., Bristol-Myers Squibb, Oclassen, Cetus, Genentech, Ciba-Geigy, ISIS Pharm.
1987	Bethesda Research Laboratories, Rockville, MD.
1988	Scientific Advisor in Clinical Research, Janssen Research Council, Janssen Pharmaceutica, Piscataway, NJ.
1989	Scientific Consultant, Abbott Laboratories, North Chicago, IL
1989-1990	Course Consultant, Osler Institute
1989	Scientific Consultant, Merck, Sharp, and Dohme, West Point, PA.
1991	Scientific Consultant, Sterling Drug Company, Albany, NY
1991	Scientific Consultant, Burroughs Wellcome, Research Triangle Park, NC
1991	Scientific Consultant, Connaught Laboratories, Swiftwater, PA

1991                    **Scientific Consultant, Matrix Pharmaceuticals, Menlo Park, CA**

1991                    **Scientific Consultant, International Diagnostics, Ft. Lauderdale, FL**

1992                    **Wyeth-Ayerst, Radnor, PA**

1993                    **Merck, Inc., Rahway, NJ**

#### **Invention Disclosures Filed:**

- 1985 PSU Disclosure No. 85-709 "Nude Mouse/Human Tissue Bioassay for Agents Inhibiting Human Pathogenic Viruses"
- 1985 PSU Disclosure No. 85-711 "Production of Infectious Virions and Virus Antigens in Human Tissue Grafts to Athymic/Nude Mice"
- 1990 PSU Disclosure No. 90-1009 "Production of Transgenic Rabbits Bearing Cottontail Rabbit Papillomavirus and/or EJras"
- 1990 PSU Disclosure No. 90-975: "Neutralizing Antibodies to Human Papillomavirus Type 11 (HPV-11)"
- 1992 PSU Disclosure No. 92-1177 "In-Vitro Test for Anti-Papillomavirus Drugs"
- 1993 PSU Disclosure No. 93-1204 "Transgenic Rabbit Model for Detecting Mutagen"
- 1993 PSU Disclosure No. 93-1225 "Ribozymes"
- 1994 PSU Disclosure No. 94-1340 "Chimpanzee Model of Human Papillomavirus Infection"
- 1994 PSU Disclosure No. 94-1342 "Artificial Human Vagina for Testing Topical Microbicides"

#### **Patent Applications**

- 1991 U.S. Patent Application No. 07/918,302: "High Efficiency Induction of Recombinant DNA Transformation of Mammalian Skin"

#### **Patents**

- 1989 U.S. Patent No. 4,814,268: "Methods for Propagating Fastidious Human Viruses and For Producing Purified Suspensions Thereof"
- 1991 U.S. Patent No. 5,071,757: "Methods for Propagating Fastidious Human Viruses and for Producing Purified Suspensions Thereof"

## Record of Research Trainees

### Former Predoctoral Trainees

Murray Rosenthal, B.S., M.S., D.O.  
Psychiatrist, Private Practice  
Miami Beach, Florida

Cinda M. Boyer, B.S., Ph.D.  
Assistant Medical Research Professor  
Department of Medicine  
Duke University Medical Center  
Durham, NC  
1975-1980

Michael G. Angell, B.A., Ph.D.  
Postdoctoral Fellow  
The University of Michigan  
1987-1993

Elaine C. DeFreitas, B.S., M.S., Ph.D.  
Associate Professor  
The Wistar Institute  
Philadelphia, PA  
1974-1978

Xuwen Peng, D.V.M., Ph.D.  
Postdoctoral Fellow  
The Milton S. Hershey Medical Center  
The Pennsylvania State University  
Hershey, PA  
1989-1993

### Former Postdoctoral Trainees

Keiji Iizuka, M.D.  
Department of Otorhinolaryngology  
Akita University School of Medicine  
Akita City, Japan  
1981-1983

Robert O. Olson, B.S., M.S., Ph.D.  
820 Verden Avenue  
Hummelstown, PA 17036  
1988-1991

Carole B. Christian, B.S., M.S., Ph.D.  
Department of Pediatrics  
The Milton S. Hershey Medical Center  
1989-1992

Reinhard Höpfl, M.D.  
Department of Dermatology and Venereology  
University of Innsbruck  
Innsbruck, Austria  
1991-1992

Jeffrey D. Wisotzkey, Ph.D.  
Postdoctoral Fellow  
Department of Pathology  
1990-Present

Neil D. Christensen, B.Sc., M.Sc., Ph.D.  
Assistant Professor  
Department of Pathology  
The Milton S. Hershey Medical Center  
1984-1990

Du Chungun, M.D.  
Department of Microbiology and Immunology  
The Milton S. Hershey Medical Center  
1989-1991

Masafumi Okabayashi, M.D.  
Department of Preventive Medicine  
Osaka University, Osaka, Japan  
1989-1992

Kurt Helm, M.D.  
Postdoctoral Fellow  
Dept. Obstet. Gynecol. (Frauenklinik)  
University Hospital Innsbruck  
Anichstrasse 35  
A-6020 Innsbruck, Austria

Yoshitaka Hagari, M.D., Ph.D.  
Postdoctoral Fellow  
Department of Dermatology  
Tottori University Faculty of Medicine  
36-1 Nishi-machi, Yonago 683,  
Japan



## **Present Postdoctoral Trainees**

**Xuwen Peng, D.V.M., Ph.D.**  
Postdoctoral Fellow  
Department of Pathology  
1993-Present

## **Collaborative/Training Experiences in my Laboratory for Clinicians and Residents**

**Mary Simmonds, M.D.,** Division of Oncology  
**Ernest K. Manders, M.D.,** Division of Plastic Surgery  
**James Marks, M.D.,** Division of Dermatology  
**Koen DeGeest, M.D.,** Gynecology Resident  
**Thomas Rosvanis, M.D.,** Urology Resident  
**Louis Martin, M.D.,** General Surgery  
**Mark Jarowenko, M.D.,** Urology  
**Harold Yang, M.D.,** Transplant Surgery  
**Gordon Kauffman, M.D.,** General Surgery  
**Natasa Zec, M.D.,** Pathology Resident  
**Barbara Miller, M.D.,** Pediatric Oncology  
**Peter Furness, M.D.,** Urology Resident

## **Ph.D. Committee Service**

For over 25 years, I have served on about 2-3 thesis committees each year, including students in Microbiology, Cell and Molecular Biology, Biochemistry, Pharmacology, Comparative Medicine, and Genetics.

## **Teaching Responsibilities**

For about 25 years, my teaching has included the following:

1. I have been Course Coordinator for the "General Pathology" section of the second-year medical student Pathology course. I have taught, at various times, all or part of the sections on Inflammation, Wound Healing, Regeneration, Neoplasia, and Autoimmunity.
2. In the "Systemic Pathology" portion of the course, I have taught portions of GI disease, liver disease, bone, muscle, and joint disease, and skin disease.
3. I have taught the "Obesity" lecture as part of the Endocrine section, in the Medicine Course.
4. I have taught about one-third of the Immunology course for second-year medical students, until about 5 years ago.
5. Initiated and organized "Molecular Biology for Pathology Residents" course.
6. I have founded and taught many topics in a graduate level course in the "Biology of Neoplasia."
7. My lectures have been well received, with evaluations in the highest categories and many awards from the medical students.

### Recent Extramural Lectureships

<u>Date</u>	<u>Location</u>	<u>Title of Seminar</u>
8/6/85	Dr. Peter Howley's Group NCI, NIH	"In Vivo Induction of Condylomas in Athymic Mice"
9/16-17/85	Upjohn Corp., Brook Lodge, Kalamazoo, Michigan	"Is there a host response to metastasis?"
11/22-26/85	American Cancer Society Papillomavirus Conference Key Biscayne, Florida	"In Vivo Induction of Condylomata in Athymic Mice?"
1/28/86	State University of NY Stony Brook, NY	"In Vivo Induction of Condylomata in Athymic Mice"
2/3/86-2/7/86	UCLA Symposium Molecular Biology Park City, Utah	"In Vivo Induction of Condylomata in Athymic Mice"
2/18-19/86	NCI Conference on Papilloma- viruses and Cancer, NIH	"In Vivo Induction of Condylomata in Athymic Mice"
3/23-25/86	American Cancer Society Science Writers Conference Daytona Beach, Florida	"In Vivo Induction of Condylomata in Athymic Mice"
4/2/86	Millersburg University Millersburg, PA	"The Biology of Cancer in Man"
4/15/86	Department of Pathology Georgetown University Georgetown, MD	"In Vivo Induction of Condylomata Cancer"
5/12/86	Division of Cancer Biology NCI, NIH	"In Vivo Induction of Condylomata in Athymic Mice"
5/14/86	Department of Pathology University of Massachusetts Worcester, MA	"In Vivo Induction of Condylomata in Athymic Mice"
5/21/86	Department of Pathology University of Rochester Rochester, NY	"In Vivo Induction of Condylomata in Athymic Mice"

# **Recent Extramural Lectureships (cont'd)**

6/19/86	Radio Interview WCAU Philadelphia	
7/28/86	German Cancer Research Center Heidelberg, West Germany	"Transformation of Human Tissues with Human Papillomaviruses"
8/4/86	Radio Interview WCAM Harrisburg	
9/4/86	Papillomavirus Conference Cold Spring Harbor, NY	"Tissue-specific Expression of Human Papillomavirus Type II"
2/2/87	Thirld Wallace Rowe Symposium in Animal Virology	"Condylomatous Transformation of Human Tissues <u>In Vivo</u> with Human Papillomavirus Type 11"
3/26/87	International Symposium on Herpes and Papillomaviruses Milano, Italy	"Morphological Transformation <u>In Vivo</u> of the Human Uterine Cervix by HPV"
4/7/87	Department of Pathology School of Medicine, University Nebraska, Omaha, Nebraska	"Model System for Papillomavirus Transformation of Human Tissues"
5/29/87	Department of Immunology and Infectious Diseases John Hopkins University School of Medicine Baltimore, MD	"Morphological Transformation of Human Tissues and HPV-11 Repli- cation in Athymic Mice"
6/17/87	Sixth International Pap- illomavirus Workshop, George- town University School of Medicine, Washington, D.C.	"Condylomatous Transformation by HPV-11 of Cultured Human Foreskin Keratinocytes Transplanted to Athymic Mice"
8/28/87	Obstetrics and Gynecology Update Conference Annapolis, Maryland	"Human Papilloma Virus Infection and Neoplastic Changes in the Female Genital Tract"
10/3/87	International Titisee Conference on Papillomavirus in Human Genital Cancer: Causative Role and Practical Consequences Titisee, West Germany	"Transplantation of HPV-Infected Human Cells into the Nude Mouse"

### Recent Extramural Lectureships (cont'd)

10/22/87	Pennsylvania Hospital Philadelphia, PA	OB/GYN Grand Rounds: "The Future of Human Papillomavirus Treatment" Pathology Conference: "Xenotrans- plants of Human Papillomavirus-Infected Tissues"
10/22/87	Philadelphia Colposcopy Annual Meeting	Keynote Lectureship
3/21/88	American Cancer Society Science Writers' Seminar Daytona Beach, Florida	"Papillomaviruses and Cervical Cancer"
4/5/88	Department of Microbiology/ Immunology Northeastern Ohio University Rootstown, Ohio	"Condylomatous Transformation of Human Tissue with Human Papillomavirus"
5/4/88	Centre County Unit American Cancer Society State College, PA	Keynote Speaker "The Future Offers Hope"
5/16-20/88	Seventh International Papillomavirus Workshop Sophia Antipolis, France	"Beta-Estradiol Stimulation of the Growth of Experimental Human Condylomas Induced with Human Papillomavirus Type 11"
11/9/88	Cancer Support Group, Villa Teresa Nursing Home, Harrisburg, PA	Keynote Speaker "The Future Offers Hope"
3/11-3/18/89	Eighth International Papilloma- virus Workshop, UCLA Symposia on Molecular and Cellular Biology, Taos, New Mexico	Plenary Lecture: "Host Factors Regulating Condylomatous Transformation by HPV-11"
4/25/89 5/2/89	Continuing Education Program, The Milton S. Hershey Medical Center, Hershey, PA	Invited Speaker, "Oncology Career Days"
5/8-10/89	Collaborative Antiviral Testing Group (CATG) of the Microbiology and Infectious Diseases Program of NIAID, NIH, Bethesda, MD	"A Papillomavirus Animal Model for Evaluation of Experimental Therapies"

# **Recent Extramural Lectureships (cont'd)**

6/14-6/17/89	2nd Annual Meeting of the Association of Medical Laboratory Immunologists, Albany, New York	Plenary Lecture: "Immunological Aspects of Papillomaviruses"
6/28/89	Penn State University Students	"Penalties of Love:
9/22/89	Osler Institute Pathology Boards Review Course, Chicago, Illinois	Faculty Lecturer: "General Review of Neoplasia"
10/16/89	Abbott Laboratories, North Chicago, Illinois	Invited Speaker: "Experimental Infection of Human Tissue with Human Papilloma Virus
10/21/89	American Society for Colposcopy and Cervical Pathology, Human Papillomavirus Infections - A Clinical Seminar	Invited Speaker: "Discussion of In Vitro Systems"
11/27/89	Merck, Sharp, and Dohme, Research Laboratories, West Point, PA	Invited Speaker: "Experimental Model of Human Papillomavirus Infection"
12/6/89	Department of Pathology and Microbiology, University of Nebraska Medical Center, Omaha, Nebraska	Invited Grand Rounds Speaker: "Warts, Hormones, and Immunity"
12/13/89	Cell and Molecular Biology Program, The Milton S. Hershey Medical Center, Hershey, PA	Invited Speaker: "Warts in Love"
3/31-4/5/90	1990 UCLA Colloquium on "Animal Models of Human Viral Diseases: Relevance to Developmental Therapeutics" Keystone, Colorado	Plenary Lecture: "Treatment of Papillomavirus Infections with Acyclic Nucleotides"
4/18-20/90	American Society of Colposcopy and Cervical Pathology, Biennial Meeting, Washington, DC	Invited Speaker: "Model Systems for Human Papilloma Virus Infections"
5/12-17/90	Papillomavirus Workshop 1990, Heidelberg, Federal Republic of Germany	"Experimental Infection with Human Human Papillomavirus Type 1 of Human Hand and Foot Skin"